

Access DB# 88849

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: S. Kumar Examiner #: 69594 Date: 3/12/03
Art Unit: 1421 Phone Number 308 4519 Serial Number: 10092983
Mail Box and Bldg/Room Location: CM 7A67 Results Format Preferred (circle): PAPER DISK E-MAIL
7E12

If more than one search is submitted, please prioritize searches in order of need. MEJ

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Softer composition
Inventors (please provide full names): Ohtawa, Yasuki et al

Earliest Priority Filing Date: 3/8/2001

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please see the claims.

BEST AVAILABLE COPY

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
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jan.delaval@uspto.gov

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher: [Signature]
Searcher Phone #: 4498
Searcher Location: _____
Date Searcher Picked Up: 3/25/03
Date Completed: 3/26/03
Searcher Prep & Review Time: _____
Clerical Prep Time: 45
Online Time: 150

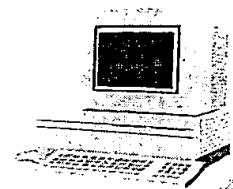
NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) ✓
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

STN ✓
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

BioTech-Chem Library

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258
CM-1 Room 1E01

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* (Example: 1610)

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms at the **Circulation Desk CM-1**, or send to Mary Hale, **CM1-1E01** or e-mail **mary.hale@uspto.gov**.

=> fil uspatall

FILE 'USPATFULL' ENTERED AT 11:09:05 ON 26 MAR 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 11:09:05 ON 26 MAR 2003

CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 1199 bib abs hitstr tot

L199 ANSWER 1 OF 3 USPATFULL

AN 1999:146493 USPATFULL

TI Agricultural chemical composition

IN Hasebe, Keiko, Wakayama, Japan

Hioki, Yuichi, Wakayama, Japan

Tachizawa, Osamu, Wakayama, Japan

Tomifuji, Takeshi, Wakayama, Japan

Katoh, Tohru, Wakayama, Japan

Nishimoto, Uichiro, Wakayama, Japan

Nishimoto, Yoshifumi, Wakayama, Japan

Sotoya, Kohshiro, Wakayama, Japan

PA KAO Corporation, Tokyo, Japan (non-U.S. corporation)

PI US 5985794 19991116

AI US 1997-985365 19971204 (8)

RLI Division of Ser. No. US 1995-467826, filed on 6 Jun 1995, now patented,
Pat. No. US 5728649 which is a division of Ser. No. US 1993-151169,
filed on 12 Nov 1993, now abandoned

PRAI JP 1992-303978 19921113

JP 1992-303979 19921113

JP 1992-303980 19921113

DT Utility

FS Granted

EXNAM Primary Examiner: Clardy, S. Mark

LREP Birch, Stewart, Kolasch & Birch, LLP

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1622

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for enhancing an efficacy of an agricultural chemical which
comprises incorporating a specific quaternary ammonium enhancer into a
diluted solution of the agricultural chemical.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157249-33-7 157249-34-8 157249-36-0

157249-37-1 157249-40-6 157249-41-7

157249-43-9 157249-44-0 157249-46-2

157249-47-3 157249-48-4 157249-50-8

157249-51-9 157249-54-2 157249-55-3

157249-57-5 157249-58-6 157249-59-7

157249-60-0 157249-62-2 157249-63-3

157249-65-5 157249-66-6 157249-68-8

157249-69-9 157249-71-3 157249-72-4

157249-74-6 157351-45-6 157351-46-7

157351-47-8 157351-48-9 157351-49-0

157351-50-3 157381-87-8 157381-88-9

157381-89-0 157381-90-3 157381-91-4

157381-92-5 157381-93-6 157506-93-9

157555-23-2 157555-24-3 157555-25-4

157555-26-5 157555-27-6

(pesticide enhancer)

RN 157249-33-7 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with

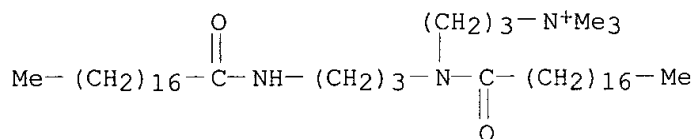
Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
jan.delaval@uspto.gov

(Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



● Cl⁻

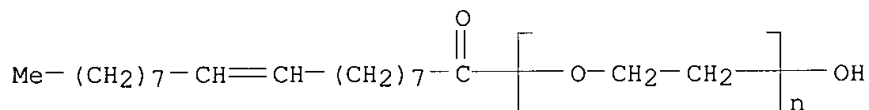
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



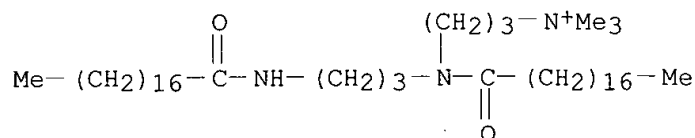
RN 157249-34-8 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



Cl⁻

CM 2

CRN 9005-64-5

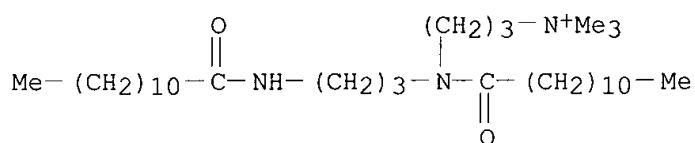
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-36-0 USPATFULL
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
(CA INDEX NAME)

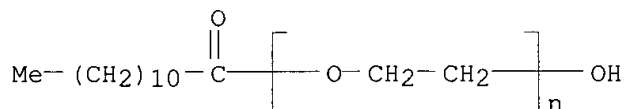
CM 1

CRN 157249-35-9
CMF C33 H68 N3 O2 . Cl



CM 2

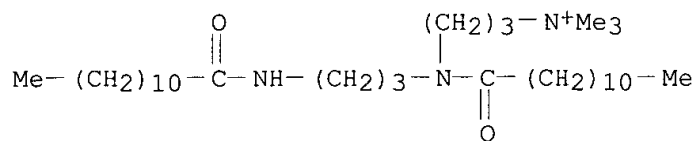
CRN 9004-81-3
CMF (C2 H4 O)_n C12 H24 O2
CCI PMS



RN 157249-37-1 USPATFULL
CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-35-9
CMF C33 H68 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-64-5
 CMF Unspecified
 CCI PMS, MAN

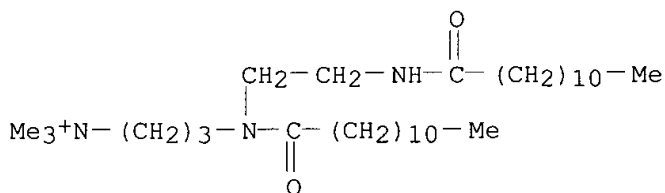
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RN 157249-40-6 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with
 (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

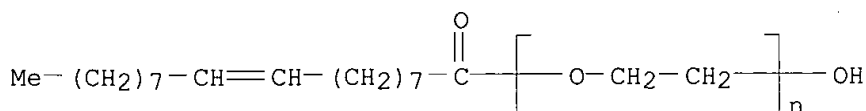
CM 1

CRN 157249-39-3
 CMF C32 H66 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z



RN 157249-41-7 USPATFULL

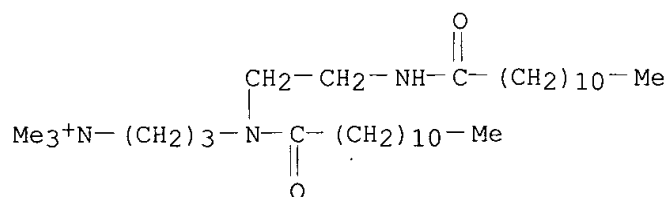
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,

mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

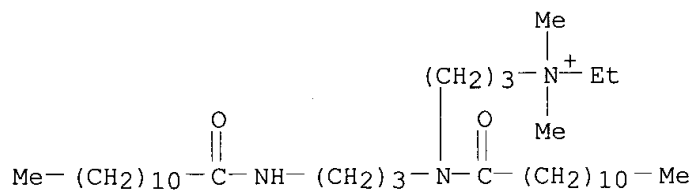
RN 157249-43-9 USPATFULL

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl



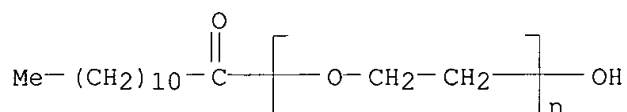
● Cl⁻

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



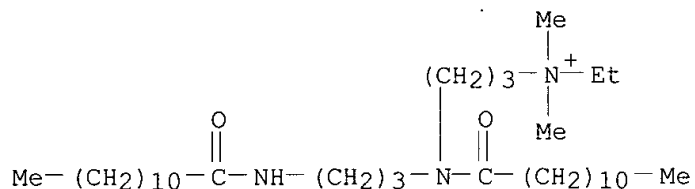
RN 157249-44-0 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-46-2 USPATFULL

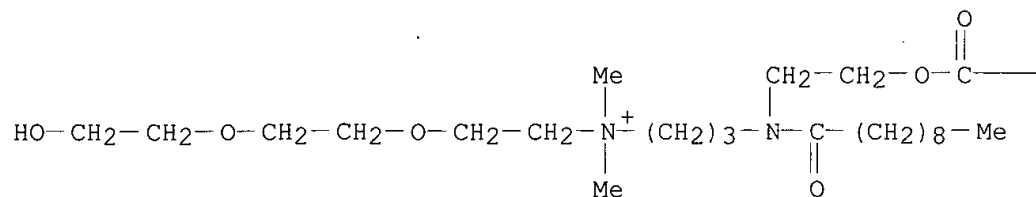
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N,N-dimethyl-3-[(1-oxodecyl)[2-[(1-oxodecyl)oxy]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-45-1

CMF C33 H67 N2 O6 . Cl

PAGE 1-A

● Cl⁻

PAGE 1-B

— (CH₂)₈—Me

CM 2

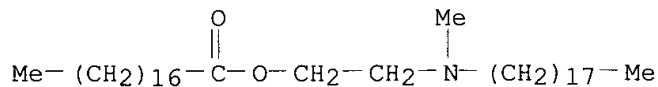
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-47-3 USPATFULL
 CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

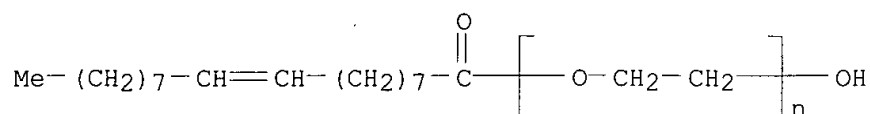
CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



● HCl

CM 2

CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z



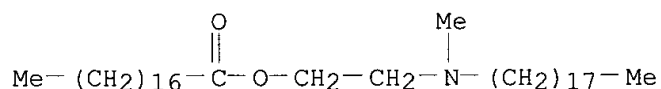
RN 157249-48-4 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
2-(methyloctadecylamino)ethyl octadecanoate hydrochloride (9CI) (CA
INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H



● HCl

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

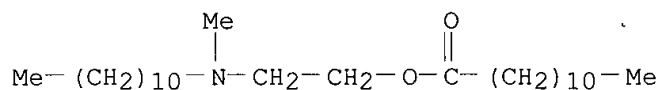
RN 157249-50-8 USPATFULL

CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt.
with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
(9CI) (CA INDEX NAME)

CM 1

CRN 157249-49-5

CMF C26 H53 N O2 . Cl H



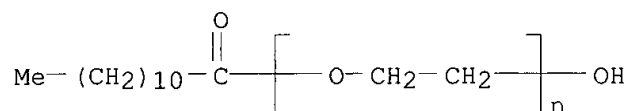
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



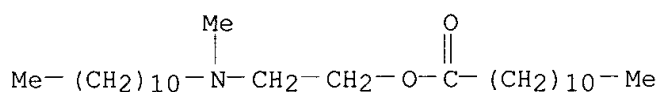
RN 157249-51-9 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with 2-(methylundecylamino)ethyl dodecanoate hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-49-5

CMF C26 H53 N O2 . Cl H



● HCl

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-54-2 USPATFULL

CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

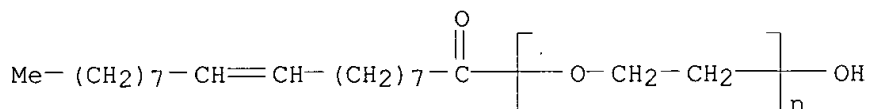
CM 1

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:2



CM 2

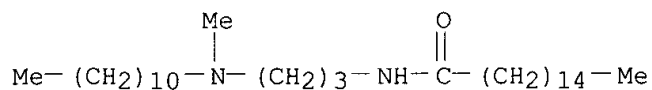
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

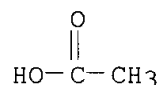
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



RN 157249-55-3 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(methylnundecylamino)propyl]hexadecanamide monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 2

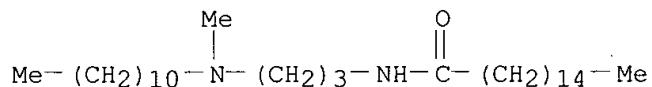
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

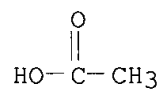
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



RN 157249-57-5 USPATFULL

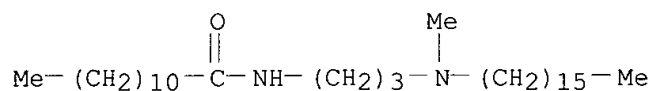
CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-

ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



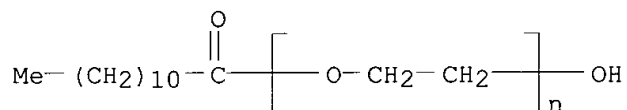
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



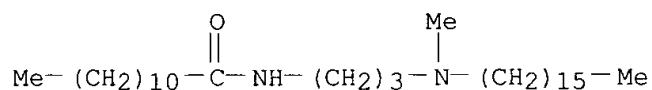
RN 157249-58-6 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(hexadecylmethylamino)propyl]dodecanamide monohydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



● HCl

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-59-7 USPATFULL

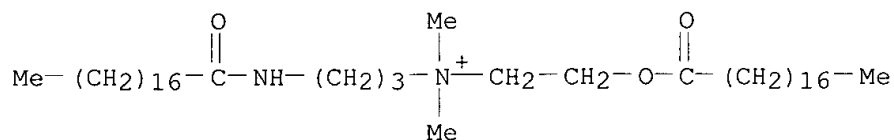
CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX

NAME}

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl



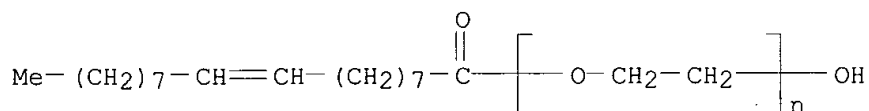
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



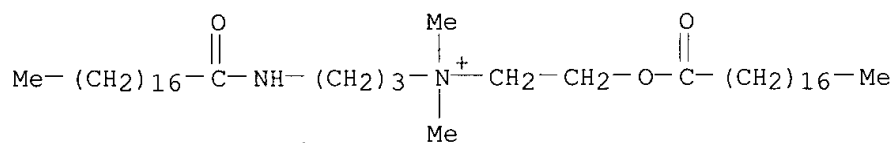
RN 157249-60-0 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-
1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl



CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

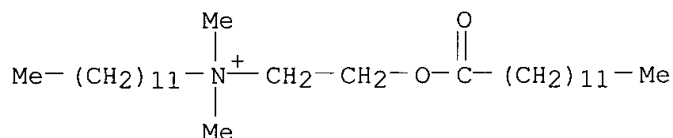
RN 157249-62-2 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride,
 mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1

CMF C29 H60 N O2 . Cl

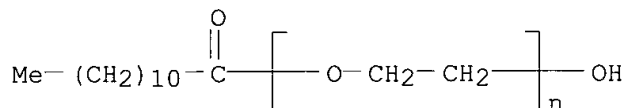


CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



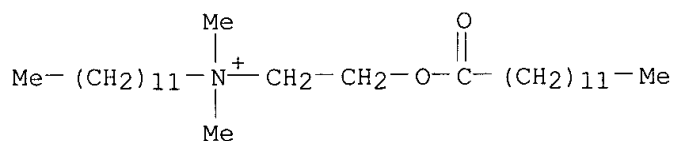
RN 157249-63-3 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,
 mixt. with N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-dodecanaminium
 chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1

CMF C29 H60 N O2 . Cl



CM 2

CRN 9005-65-6

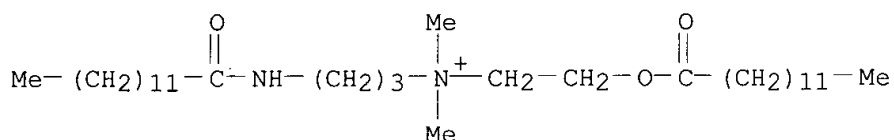
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-65-5 USPATFULL
CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

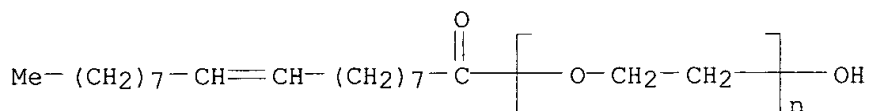
CM 1

CRN 157249-64-4
CMF C33 H67 N2 O3 . Cl



CM 2

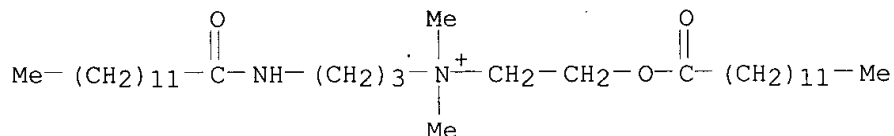
CRN 9004-96-0
CMF (C2 H4 O)_n C18 H34 O2
CCI PMS
CDES 2:2



RN 157249-66-6 USPATFULL
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4
CMF C33 H67 N2 O3 . Cl



CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

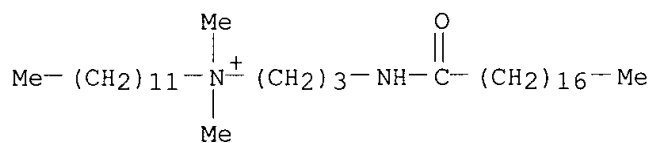
STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-68-8 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-,
 chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

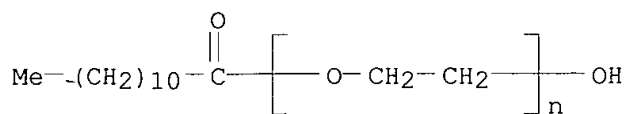
CM 1

CRN 157249-67-7
 CMF C35 H73 N2 O . Cl



CM 2

CRN 9004-81-3
 CMF (C2 H4 O)_n C12 H24 O2
 CCI PMS

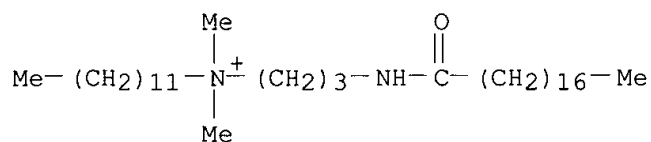


RN 157249-69-9 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,
 mixt. with N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-1-
 dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7
 CMF C35 H73 N2 O . Cl



CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

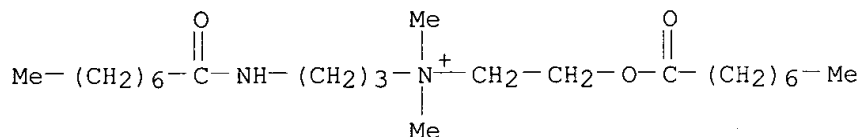
RN 157249-71-3 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-, chloride, mixt. with Emulgen 707 (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2

CMF C23 H47 N2 O3 . Cl



CM 2

CRN 88085-98-7

CMF Unspecified

CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

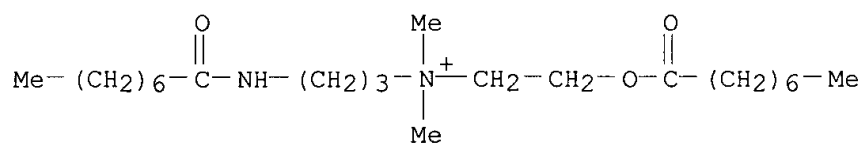
RN 157249-72-4 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-1-propanaminium, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2

CMF C23 H47 N2 O3 . Cl



CM 2

CRN 9005-65-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

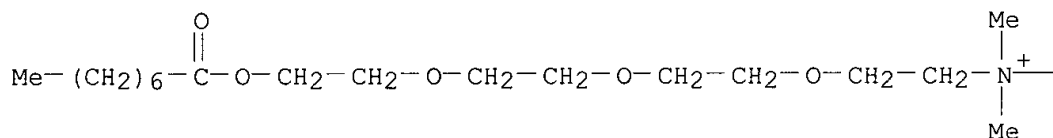
RN 157249-74-6 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-3,6,9,12-tetraoxaeicosan-1-aminium chloride (9CI) (CA INDEX NAME)

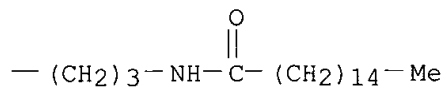
CM 1

CRN 157249-73-5
CMF C37 H75 N2 O6 . Cl

PAGE 1-A



PAGE 1-B



CM 2

CRN 9005-65-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-45-6 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13

alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-46-7 USPATFULL

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl){3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-47-8 USPATFULL

CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-48-9 USPATFULL

CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-49-0 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-50-3 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

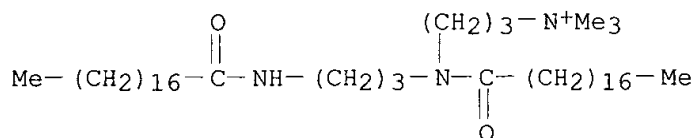
RN 157381-87-8 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl){3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



● Cl⁻

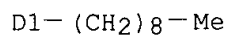
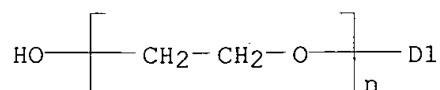
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



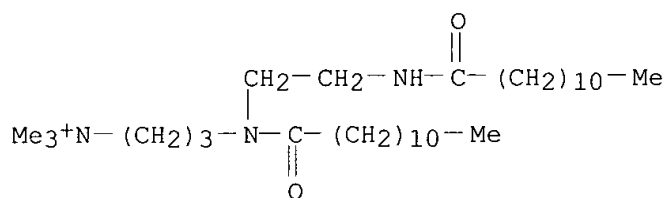
RN 157381-88-9 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



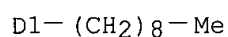
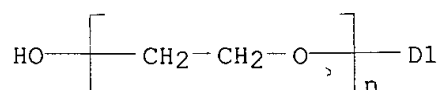
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

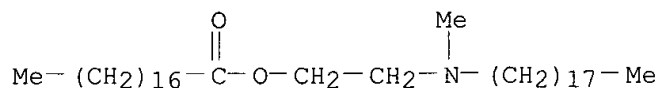
CDES 8:ID



RN 157381-89-0 USPATFULL
 CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 (9CI) (CA INDEX NAME)

CM 1

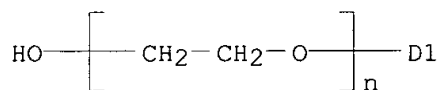
CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



● HCl

CM 2

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID

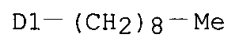
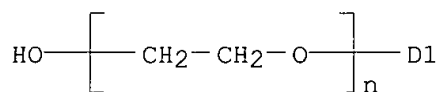


D1-(CH₂)₈-Me

RN 157381-90-3 USPATFULL
 CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, acetate (salt), mixt.
 with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

CM 1

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID



CM 2

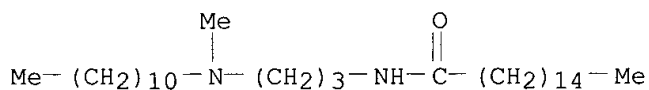
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

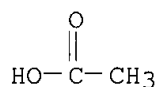
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



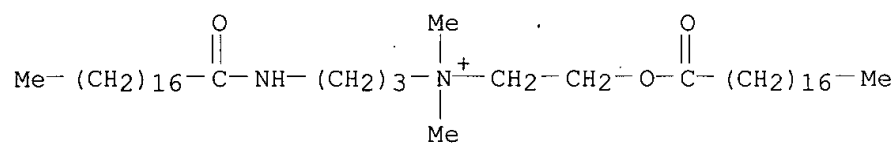
RN 157381-91-4 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . C1



● Cl⁻

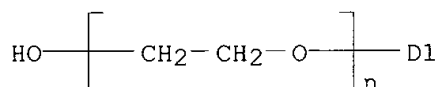
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



D1-(CH₂)₈-Me

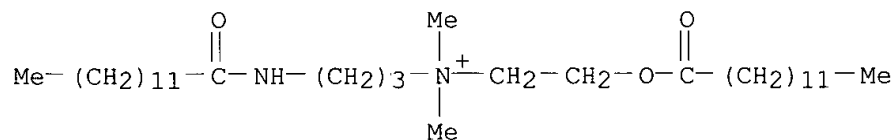
RN 157381-92-5 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



● Cl⁻

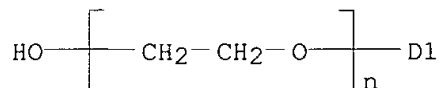
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID

D1- (CH₂)₈-Me

RN 157381-93-6 USPATFULL

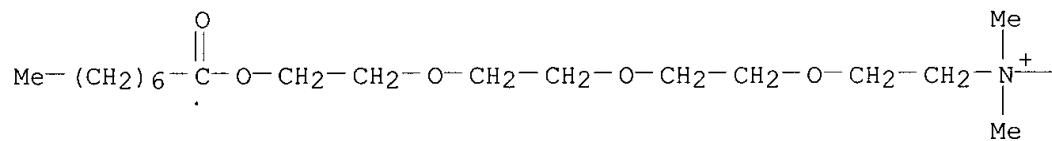
CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

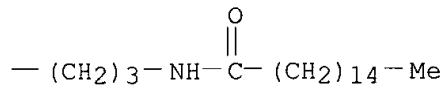
CRN 157249-73-5

CMF C37 H75 N2 O6 . Cl

PAGE 1-A

● Cl⁻

PAGE 1-B



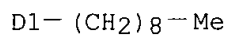
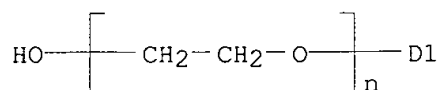
CM 2

CRN 9016-45-9

CMF (C₂ H₄ O)_n C₁₅ H₂₄ O

CCI IDS, PMS

CDES 8:ID



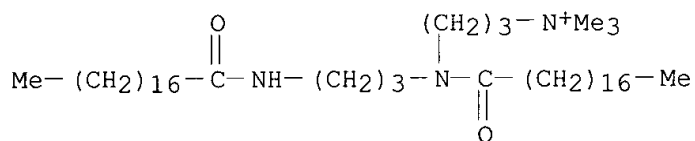
RN 157506-93-9 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

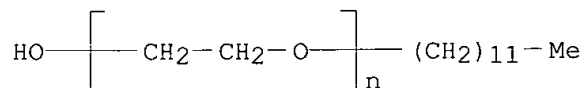


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



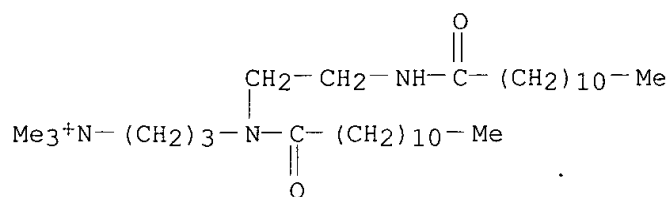
RN 157555-23-2 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

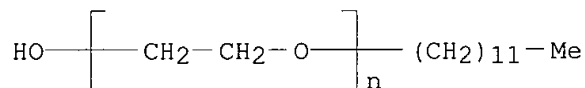


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



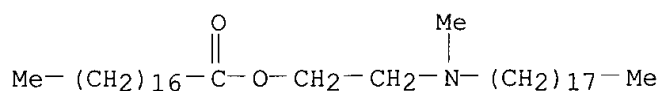
RN 157555-24-3 USPATFULL

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H

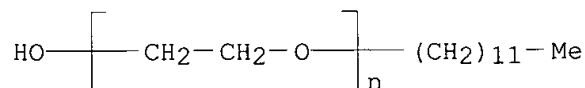


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



RN 157555-25-4 USPATFULL

CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX

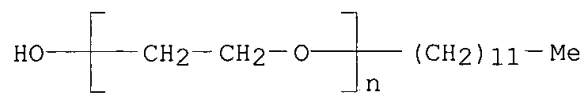
NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



CM 2

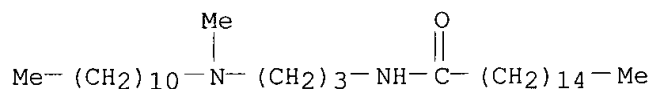
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

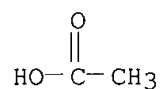
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



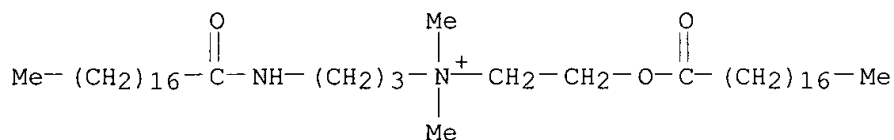
RN 157555-26-5 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . C1

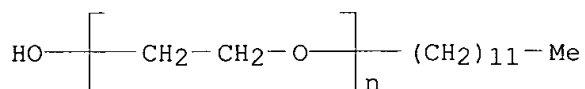


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



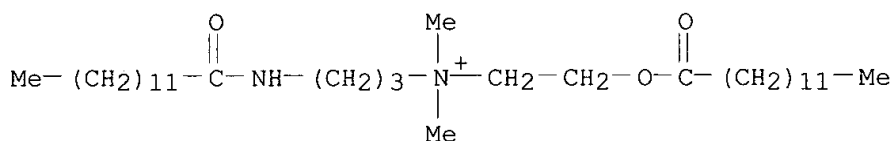
RN 157555-27-6 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

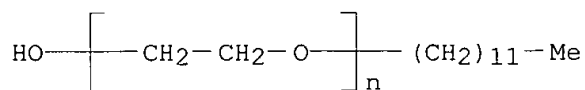


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



L199 ANSWER 2 OF 3 USPATFULL

AN 1998:28030 USPATFULL

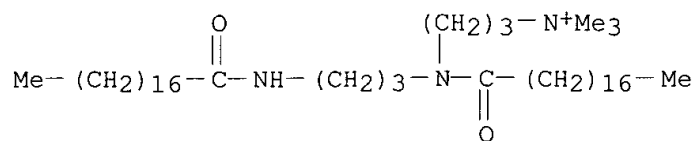
TI Agricultural chemical composition
IN Hasebe, Keiko, Wakayama, Japan
Hioki, Yuichi, Wakayama, Japan
Tachizawa, Osamu, Wakayama, Japan
Tomifuji, Takeshi, Wakayama, Japan
Kato, Tohru, Wakayama, Japan
Nishimoto, Uichiro, Wakayama, Japan
Nishimoto, Yoshifumi, Wakayama, Japan
Sotoya, Kohshiro, Wakayama, Japan
PA Kao Corporation, Tokyo, Japan (non-U.S. corporation)
PI US 5728649 19980317
AI US 1995-467826 19950606 (8)
RLI Division of Ser. No. US 1993-151169, filed on 12 Nov 1993, now abandoned
PRAI JP 1992-303978 19921113
JP 1992-303979 19921113
JP 1992-303980 19921113
DT Utility
FS Granted
EXNAM Primary Examiner: Clardy, S. Mark
LREP Birch, Stewart, Kolasch & Birch, LLP
CLMN Number of Claims: 2
ECL Exemplary Claim: 1
DRWN No Drawings
LN.CNT 1767
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for enhancing an efficacy of an agricultural chemical which
comprises incorporating a specific quaternary ammonium enhancer into a
diluted solution of the agricultural chemical.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157249-33-7 157249-34-8 157249-36-0
157249-37-1 157249-40-6 157249-41-7
157249-43-9 157249-44-0 157249-46-2
157249-47-3 157249-48-4 157249-50-8
157249-51-9 157249-54-2 157249-55-3
157249-57-5 157249-58-6 157249-59-7
157249-60-0 157249-62-2 157249-63-3
157249-65-5 157249-66-6 157249-68-8
157249-69-9 157249-71-3 157249-72-4
157249-74-6 157351-45-6 157351-46-7
157351-47-8 157351-48-9 157351-49-0
157351-50-3 157381-87-8 157381-88-9
157381-89-0 157381-90-3 157381-91-4
157381-92-5 157381-93-6 157506-93-9
157555-23-2 157555-24-3 157555-25-4
157555-26-5 157555-27-6
(pesticide enhancer)
RN 157249-33-7 USPATFULL
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with
(Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9
CMF C45 H92 N3 O2 . Cl



● Cl⁻

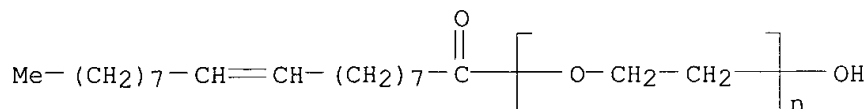
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



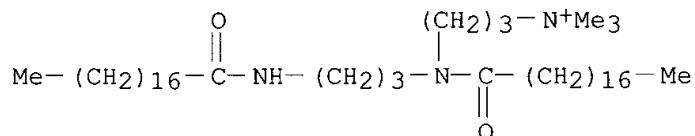
RN 157249-34-8 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-36-0 USPATFULL

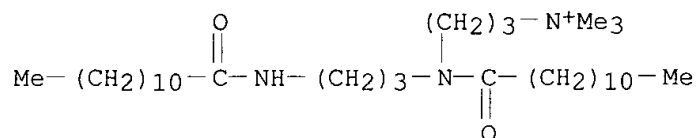
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)

(CA INDEX NAME)

CM 1

CRN 157249-35-9

CMF C33 H68 N3 O2 . Cl

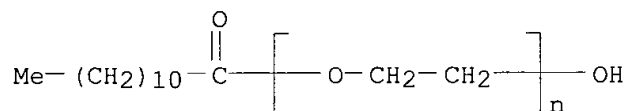
● Cl⁻

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



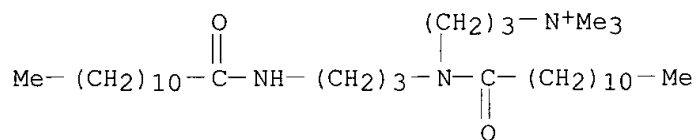
RN 157249-37-1 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-
propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-35-9

CMF C33 H68 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

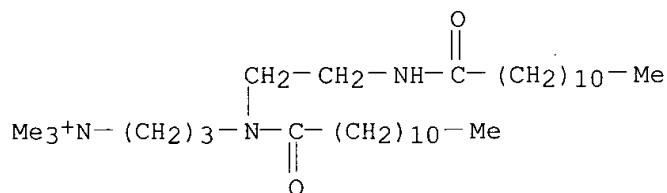
RN 157249-40-6 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

● Cl⁻

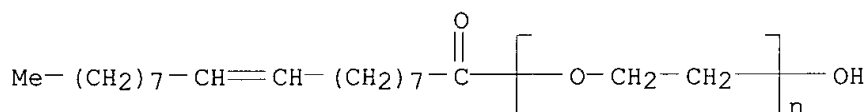
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



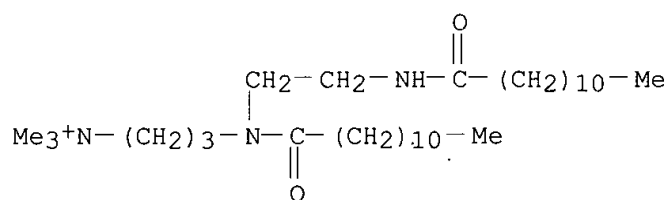
RN 157249-41-7 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

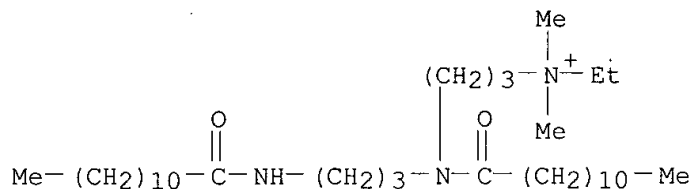
RN 157249-43-9 USPATFULL

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
(CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl

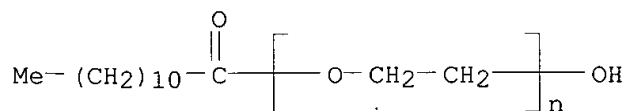


CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



RN 157249-44-0 USPATFULL

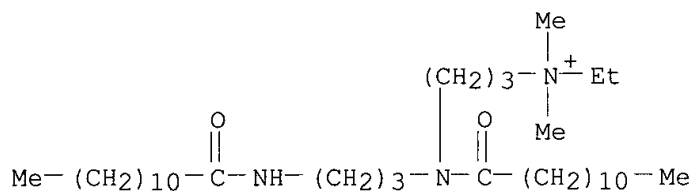
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,

mixt. with N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-46-2 USPATFULL

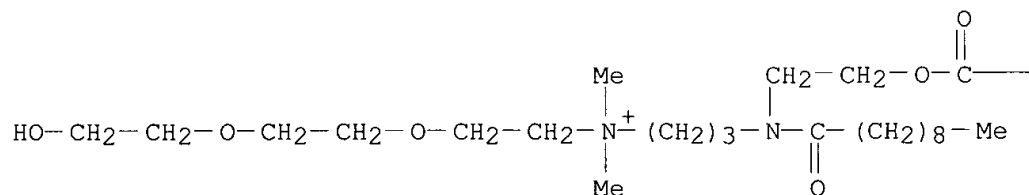
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N,N-dimethyl-3-[(1-oxodecyl)[2-[(1-oxodecyl)oxy]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-45-1

CMF C33 H67 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B

— (CH₂)₈—Me

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

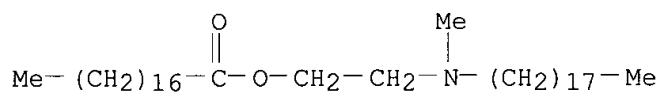
RN 157249-47-3 USPATFULL

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H



● HCl

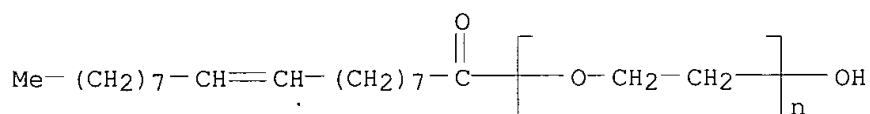
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



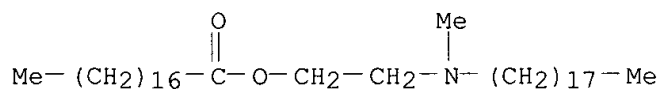
RN 157249-48-4 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
 2-(methyloctadecylamino)ethyl octadecanoate hydrochloride (9CI) (CA
 INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H



● HCl

CM 2

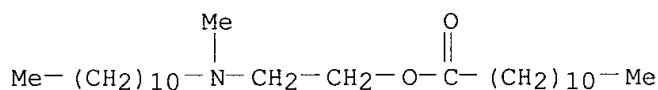
CRN 9005-64-5
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-50-8 USPATFULL
CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt.
with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
(9CI) (CA INDEX NAME)

CM 1

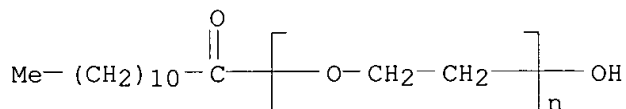
CRN 157249-49-5
CMF C26 H53 N O2 . Cl H



● HCl

CM 2

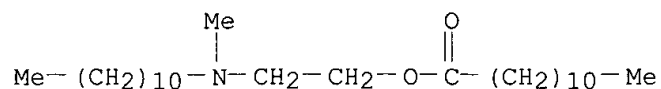
CRN 9004-81-3
CMF (C2 H4 O)_n C12 H24 O2
CCI PMS



RN 157249-51-9 USPATFULL
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,
mixt. with 2-(methylundecylamino)ethyl dodecanoate hydrochloride (9CI)
(CA INDEX NAME)

CM 1

CRN 157249-49-5
CMF C26 H53 N O2 . Cl H



● HCl

CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

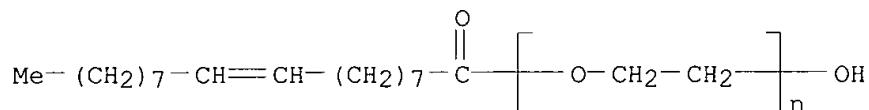
STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-54-2 USPATFULL

CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with
 (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z

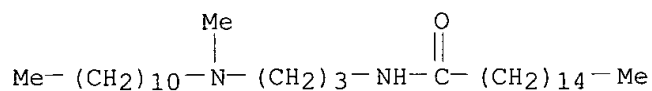


CM 2

CRN 157249-53-1
 CMF C31 H64 N2 O . C2 H4 O2

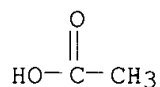
CM 3

CRN 157249-52-0
 CMF C31 H64 N2 O



CM 4

CRN 64-19-7
 CMF C2 H4 O2



RN 157249-55-3 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(methylundecylamino)propyl]hexadecanamide monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

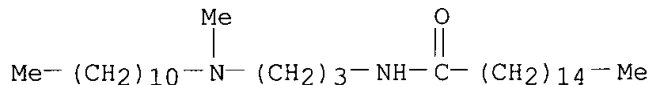
STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 2

CRN 157249-53-1
 CMF C31 H64 N2 O . C2 H4 O2

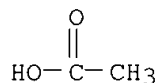
CM 3

CRN 157249-52-0
 CMF C31 H64 N2 O



CM 4

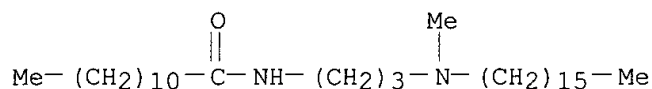
CRN 64-19-7
 CMF C2 H4 O2



RN 157249-57-5 USPATFULL
 CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4
 CMF C32 H66 N2 O . Cl H



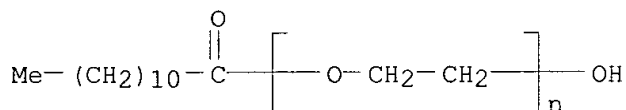
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



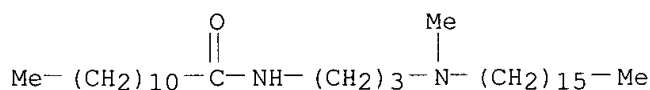
RN 157249-58-6 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(hexadecylmethylamino)propyl]dodecanamide monohydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . C1 H



● HCl

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

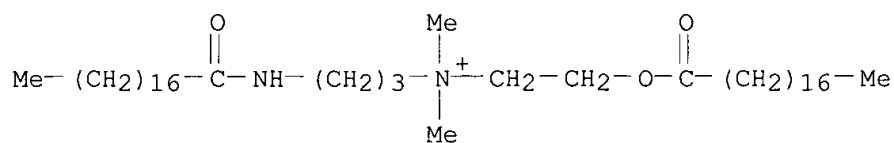
RN 157249-59-7 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . C1

● Cl⁻

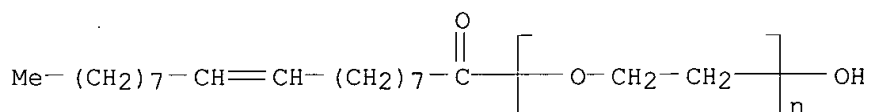
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:2



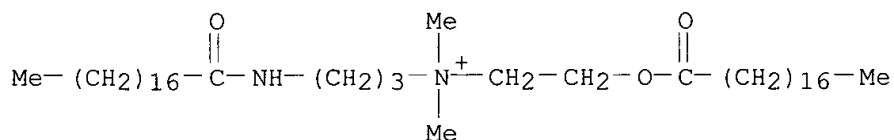
RN 157249-60-0 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-
1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl

● Cl⁻

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

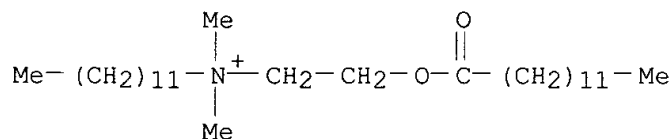
STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-62-2 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride,
mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-
ethanediyl) (9CI) (CA INDEX NAME)

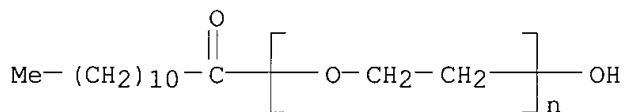
CM 1

CRN 157249-61-1
CMF C29 H60 N O2 . Cl



CM 2

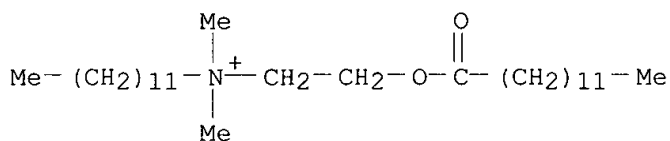
CRN 9004-81-3
CMF (C2 H4 O)_n C12 H24 O2
CCI PMS



RN 157249-63-3 USPATFULL
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1
CMF C29 H60 N O2 . Cl



CM 2

CRN 9005-65-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

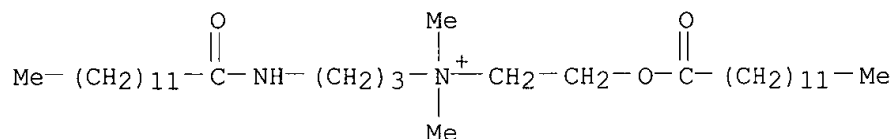
RN 157249-65-5 USPATFULL
CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-

octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



● Cl⁻

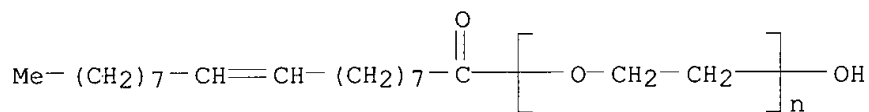
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



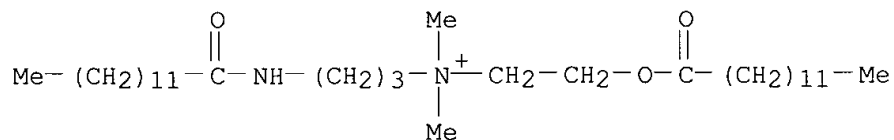
RN 157249-66-6 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

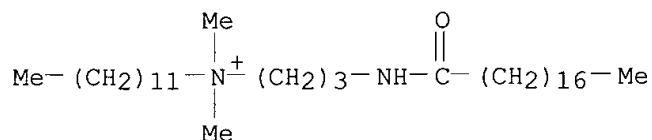
RN 157249-68-8 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7

CMF C35 H73 N2 O . Cl

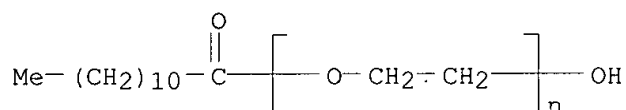


CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



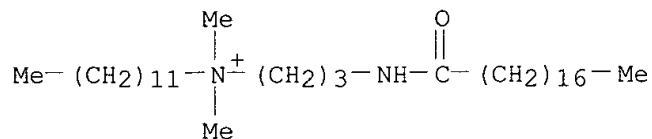
RN 157249-69-9 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7

CMF C35 H73 N2 O . Cl



CM 2

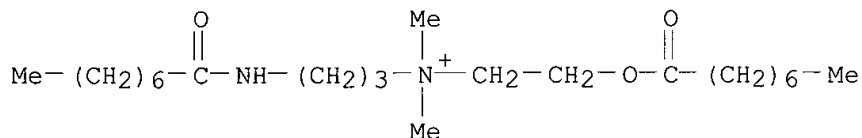
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-71-3 USPATFULL
 CN 1-Propanaminium, N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-, chloride, mixt. with Emulgen 707 (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2
 CMF C23 H47 N2 O3 . Cl



● Cl⁻

CM 2

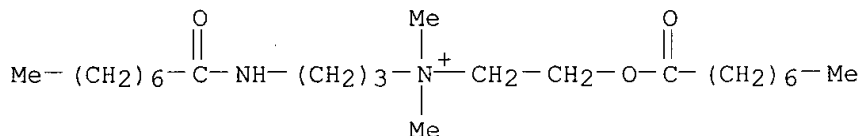
CRN 88085-98-7
 CMF Unspecified
 CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-72-4 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-1-propanaminium, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2
 CMF C23 H47 N2 O3 . Cl



● Cl⁻

CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

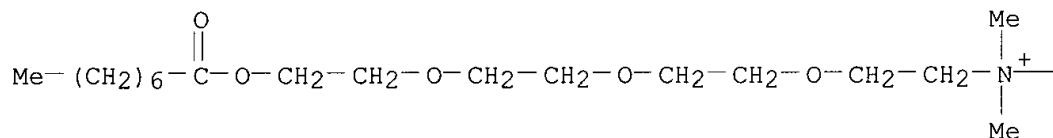
STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-74-6 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-3,6,9,12-tetraoxaeicosan-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

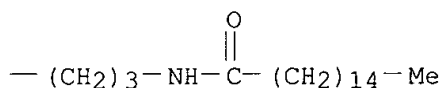
CRN 157249-73-5
 CMF C37 H75 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B



CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-45-6 USPATFULL
 CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-46-7 USPATFULL
 CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-47-8 USPATFULL
 CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-48-9 USPATFULL
 CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-49-0 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-50-3 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

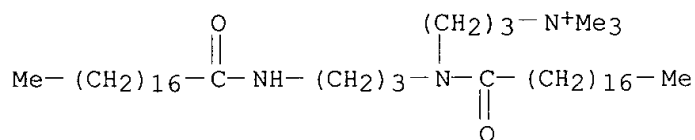
RN 157381-87-8 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

● Cl⁻

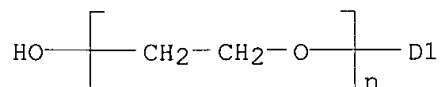
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID

D1-(CH₂)₈-Me

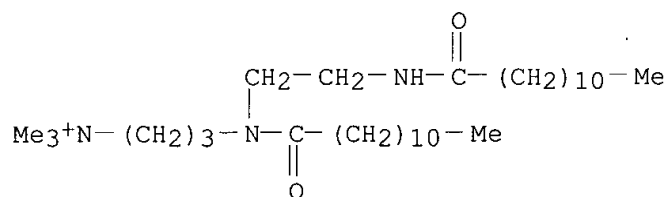
RN 157381-88-9 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

● Cl⁻

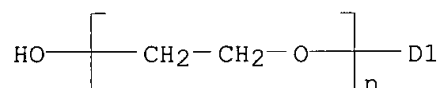
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID

D1---(CH₂)₈---Me

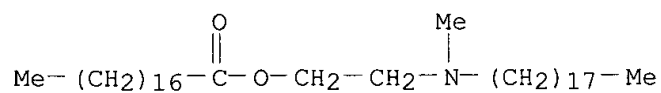
RN 157381-89-0 USPATFULL

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

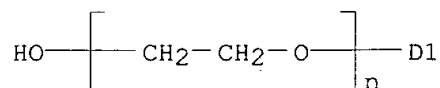
CMF C39 H79 N O2 . Cl H



HCl

CM 2

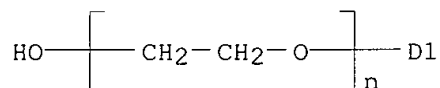
CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID

D1-(CH₂)₈-Me

RN 157381-90-3 USPATFULL
 CN Hexadecanamide, N-[3-(methylnundecylamino)propyl]-, acetate (salt), mixt.
 with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

CM 1

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID

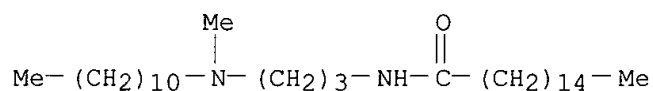
D1-(CH₂)₈-Me

CM 2

CRN 157249-53-1
 CMF C31 H64 N2 O . C2 H4 O2

CM 3

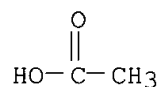
CRN 157249-52-0
 CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



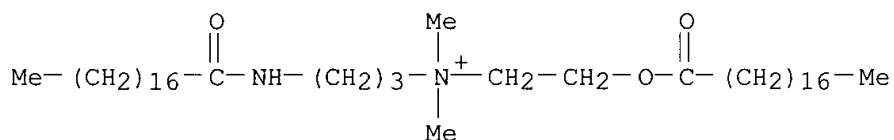
RN 157381-91-4 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl



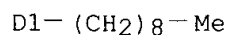
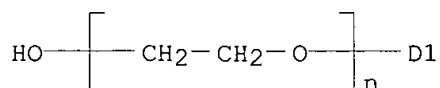
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

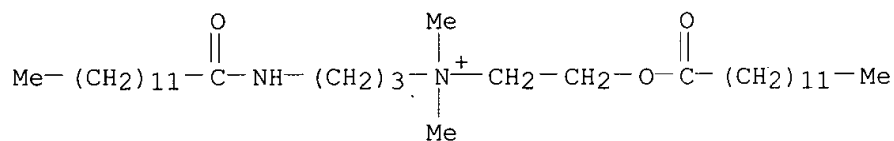
CDES 8:ID



RN 157381-92-5 USPATFULL
 CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

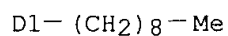
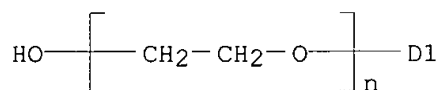
CM 1

CRN 157249-64-4
 CMF C33 H67 N2 O3 . Cl



CM 2

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID

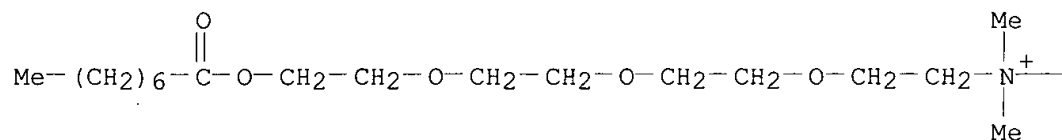


RN 157381-93-6 USPATFULL
 CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

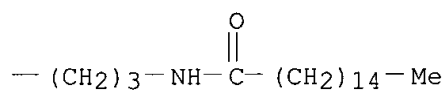
CM 1

CRN 157249-73-5
 CMF C37 H75 N2 O6 . Cl

PAGE 1-A



PAGE 1-B



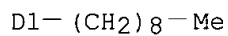
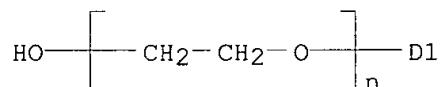
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



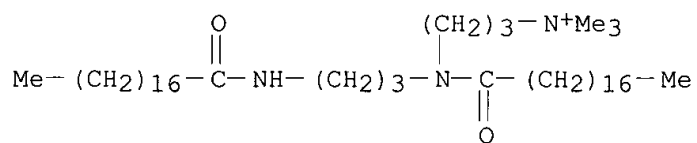
RN 157506-93-9 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

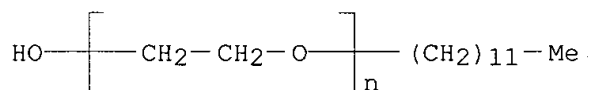


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



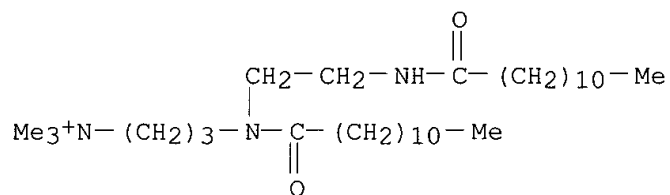
RN 157555-23-2 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

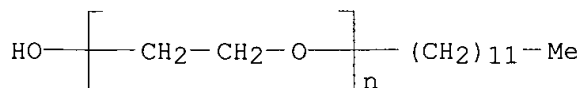


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

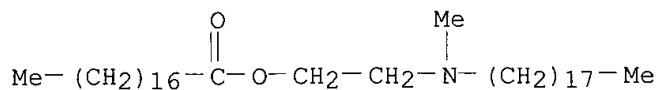
CCI PMS



RN 157555-24-3 USPATFULL
 CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

CM 1

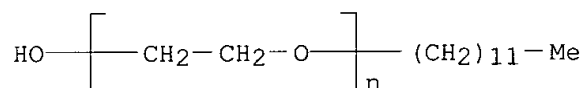
CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



● HCl

CM 2

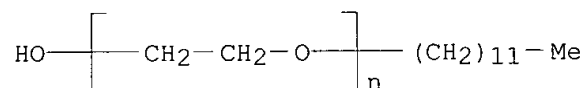
CRN 9002-92-0
 CMF (C2 H4 O)_n C12 H26 O
 CCI PMS



RN 157555-25-4 USPATFULL
 CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with
 .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX
 NAME)

CM 1

CRN 9002-92-0
 CMF (C2 H4 O)_n C12 H26 O
 CCI PMS

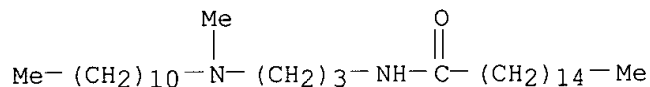


CM 2

CRN 157249-53-1
 CMF C31 H64 N2 O . C2 H4 O2

CM 3

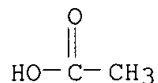
CRN 157249-52-0
 CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



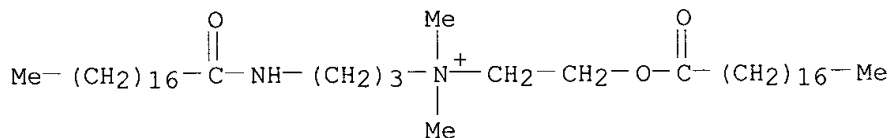
RN 157555-26-5 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl

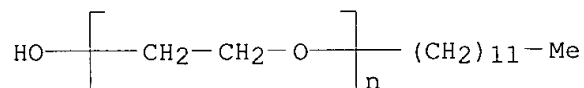
● Cl⁻

CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



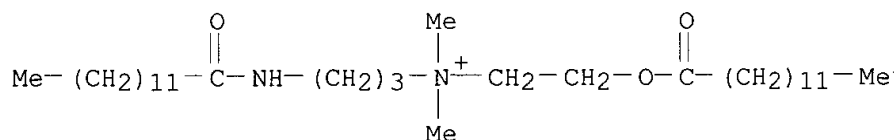
RN 157555-27-6 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

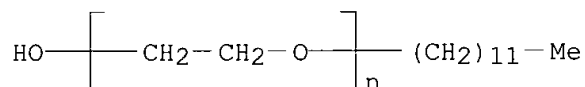


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



L199 ANSWER 3 OF 3 USPATFULL

AN 96:65529 USPATFULL

TI Agricultural chemical composition comprising quaternary ammonium enhancers

IN Hasebe, Keiko, 2874-13, Nougawa, Wakayama-shi, Wakayama, Japan
 Hioki, Yuichi, 1293-7, Musota, Wakayama-shi, Wakayama, Japan
 Tachizawa, Osamu, 1450, Nishihama, Wakayama-shi, Wakayama, Japan
 Tomifuji, Takeshi, 4-1, Kinryujicho, Wakayama-shi, Wakayama, Japan
 Katoh, Tohru, 1450, Nishihama, Wakayama-shi, Wakayama, Japan
 Nishimoto, Uichiro, 173-5, Ohtani, Wakayama-shi, Wakayama, Japan
 Nishimoto, Yoshifumi, 1282-4, Hikata, Kainan-shi, Wakayama, Japan
 Sotoya, Kohshiro, 446-26, Nakaguro, Iwadecho, Naga-gun, Wakayama, Japan

PI US 5538937 19960723

AI US 1995-468914 19950606 (8)

RLI Continuation of Ser. No. US 1993-151169, filed on 12 Nov 1993, now abandoned

PRAI JP 1992-303978 19921113

JP 1992-303979 19921113

JP 1992-303980 19921113

DT Utility

FS Granted

EXNAM Primary Examiner: Clardy, S. Mark

CLMN Number of Claims: 25

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 1878

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for enhancing an efficacy of an agricultural chemical which comprises incorporating a quaternary ammonium enhancer into a diluted solution of the agricultural chemical.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 157249-33-7 157249-34-8 157249-36-0

157249-37-1 157249-40-6 157249-41-7

157249-43-9 157249-44-0 157249-46-2

157249-47-3 157249-48-4 157249-50-8

157249-51-9 157249-54-2 157249-55-3

157249-57-5 157249-58-6 157249-59-7

157249-60-0 157249-62-2 157249-63-3
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 157249-69-9 157249-71-3 157249-72-4
 157249-74-6 157351-45-6 157351-46-7
 157351-47-8 157351-48-9 157351-49-0
 157351-50-3 157381-87-8 157381-88-9
 157381-89-0 157381-90-3 157381-91-4
 157381-92-5 157381-93-6 157506-93-9
 157555-23-2 157555-24-3 157555-25-4
 157555-26-5 157555-27-6

(pesticide enhancer)

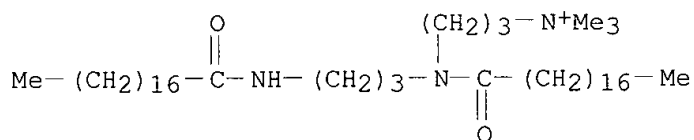
RN 157249-33-7 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



● Cl⁻

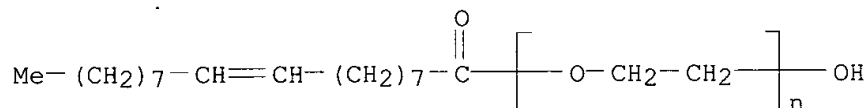
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:2



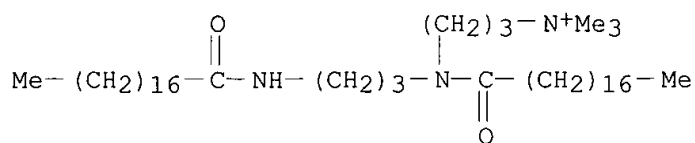
RN 157249-34-8 USPATFULL

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl



● Cl⁻

CM 2

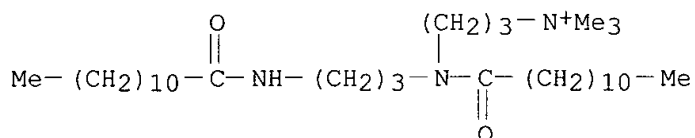
CRN 9005-64-5
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-36-0 USPATFULL
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
(CA INDEX NAME)

CM 1

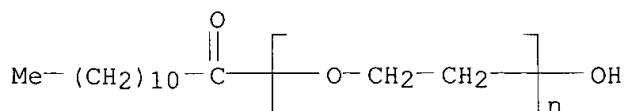
CRN 157249-35-9
CMF C33 H68 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9004-81-3
CMF (C2 H4 O)_n C12 H24 O2
CCI PMS

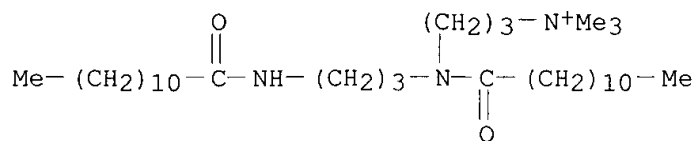


RN 157249-37-1 USPATFULL
CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-35-9

CMF C33 H68 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

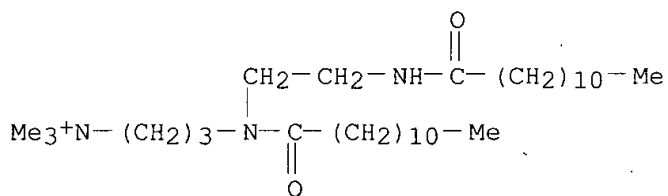
RN 157249-40-6 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

● Cl⁻

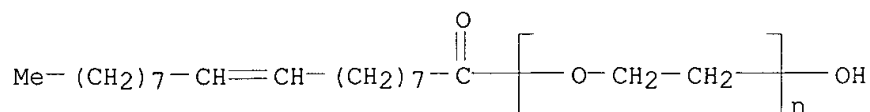
CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS

CDES 2:Z



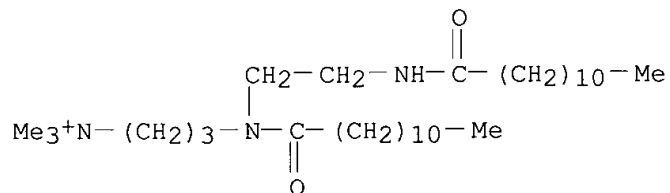
RN 157249-41-7 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

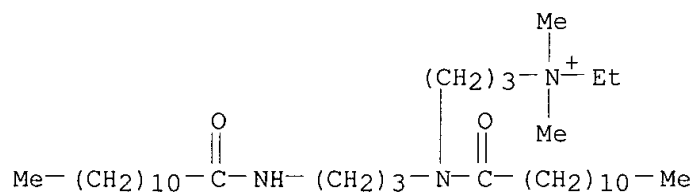
RN 157249-43-9 USPATFULL

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl

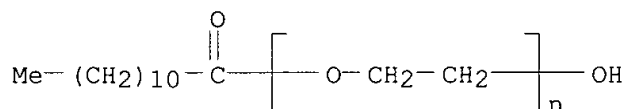
● Cl⁻

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



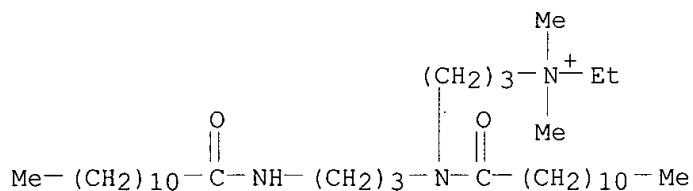
RN 157249-44-0 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-46-2 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,

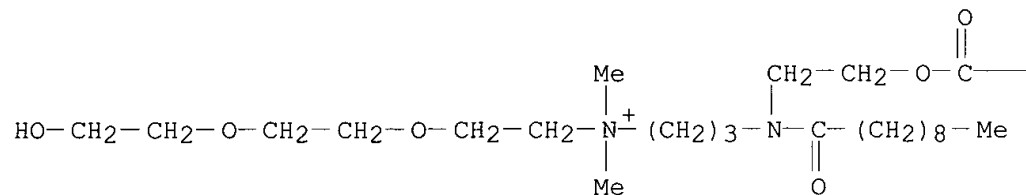
mixt. with N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N,N-dimethyl-3-[(1-oxodecyl)[2-[(1-oxodecyl)oxy]ethyl]amino]-1-propanaminium chloride (9CI)
(CA INDEX NAME)

CM 1

CRN 157249-45-1

CMF C33 H67 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B

— (CH₂)₈—Me

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

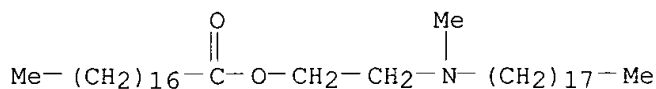
RN 157249-47-3 USPATFULL

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

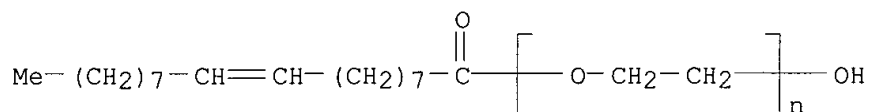
CMF C39 H79 N O2 . Cl H



HCl

CM 2

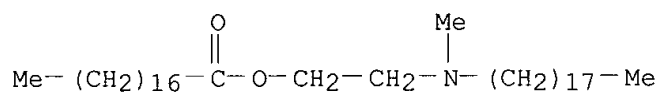
CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z



RN 157249-48-4 USPATFULL
 CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with
 2-(methyloctadecylamino)ethyl octadecanoate hydrochloride (9CI) (CA
 INDEX NAME)

CM 1

CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



● HCl

CM 2

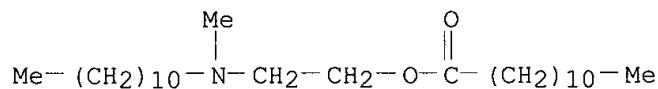
CRN 9005-64-5
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-50-8 USPATFULL
 CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt.
 with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 (9CI) (CA INDEX NAME)

CM 1

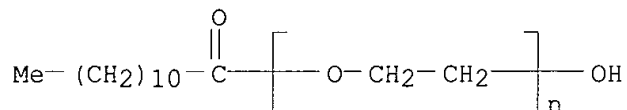
CRN 157249-49-5
 CMF C26 H53 N O2 . Cl H



HCl

CM 2

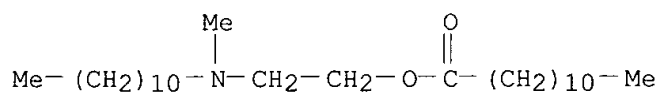
CRN 9004-81-3
 CMF (C2 H4 O)_n C12 H24 O2
 CCI PMS



RN 157249-51-9 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with 2-(methylundecylamino)ethyl dodecanoate hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-49-5
 CMF C26 H53 N O2 . C1 H



● HCl

CM 2

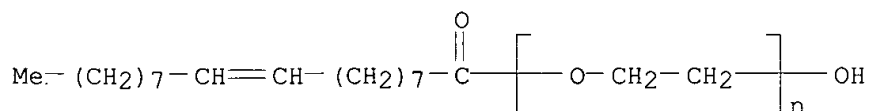
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-54-2 USPATFULL
 CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z



CM 2

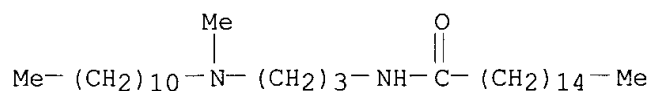
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

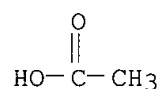
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



RN 157249-55-3 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(methylundecylamino)propyl]hexadecanamide monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

CM 2

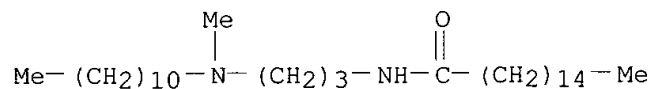
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

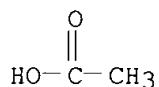
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



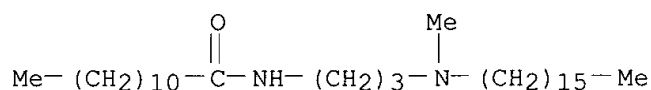
RN 157249-57-5 USPATFULL

CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride,
mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-
ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



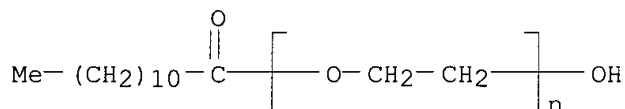
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



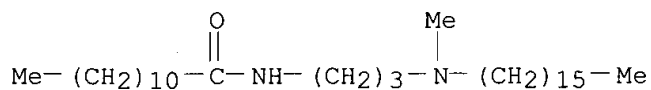
RN 157249-58-6 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,
mixt. with N-[3-(hexadecylmethylamino)propyl]dodecanamide
monohydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



HCl

CM 2

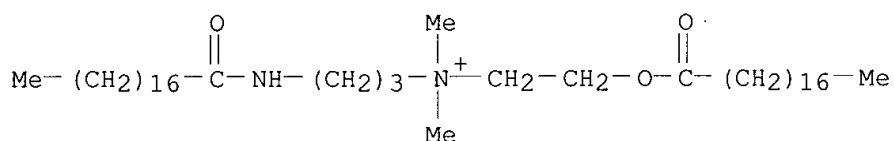
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-59-7 USPATFULL
 CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

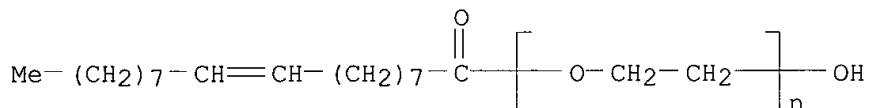
CRN 151955-38-3
 CMF C43 H87 N2 O3 . Cl



● Cl⁻

CM 2

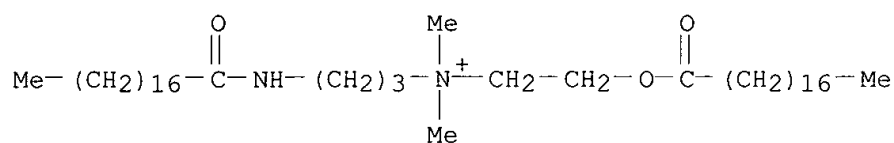
CRN 9004-96-0
 CMF (C2 H4 O)_n C18 H34 O2
 CCI PMS
 CDES 2:Z



RN 157249-60-0 USPATFULL
 CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3
 CMF C43 H87 N2 O3 . Cl



CM 2

CRN 9005-64-5
CMF Unspecified
CCI PMS, MAN

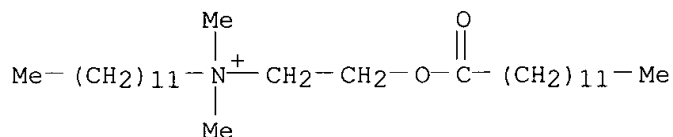
STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-62-2 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

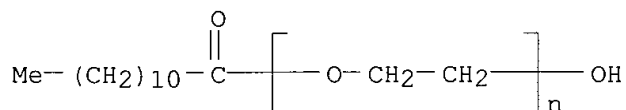
CM 1

CRN 157249-61-1
CMF C29 H60 N O2 . Cl



CM 2

CRN 9004-81-3
CMF (C2 H4 O)_n C12 H24 O2
CCI PMS

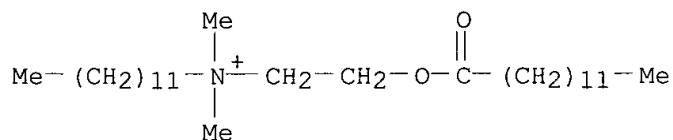


RN 157249-63-3 USPATFULL

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1
CMF C29 H60 N O2 . Cl



CM 2

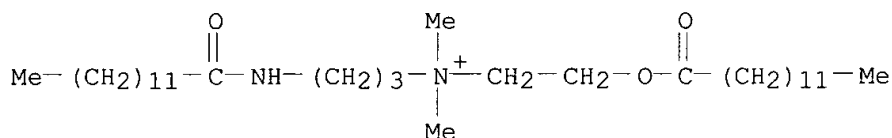
CRN 9005-65-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-65-5 USPATFULL
CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

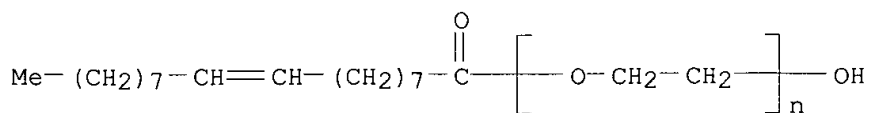
CM 1

CRN 157249-64-4
CMF C33 H67 N2 O3 . Cl



CM 2

CRN 9004-96-0
CMF (C2 H4 O)_n C18 H34 O2
CCI PMS
CDES 2:Z



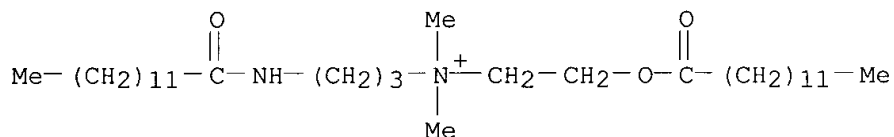
RN 157249-66-6 USPATFULL
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,

mixt. with N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

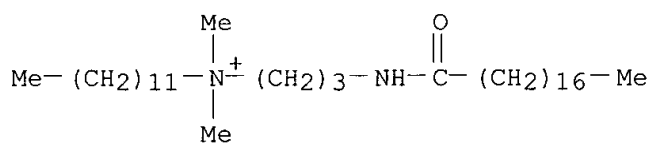
RN 157249-68-8 USPATFULL

CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7

CMF C35 H73 N2 O . Cl



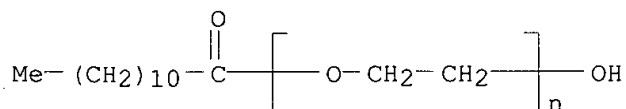
● Cl⁻

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

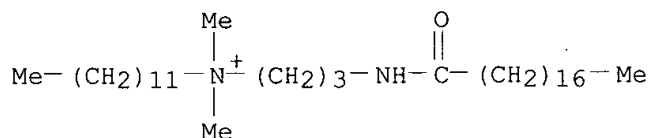
CCI PMS



RN 157249-69-9 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7
 CMF C35 H73 N2 O . Cl



● Cl⁻

CM 2

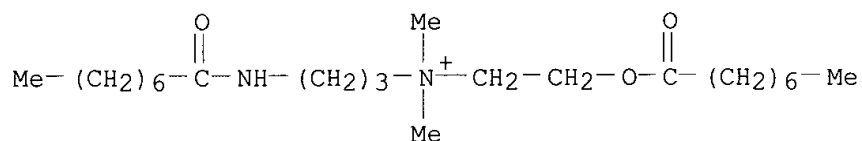
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-71-3 USPATFULL
 CN 1-Propanaminium, N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-, chloride, mixt. with Emulgen 707 (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2
 CMF C23 H47 N2 O3 . Cl



● Cl⁻

CM 2

CRN 88085-98-7
 CMF Unspecified
 CCI MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

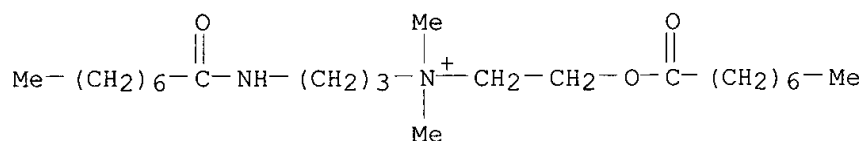
RN 157249-72-4 USPATFULL
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-,

mixt. with N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-1-propanaminium, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2

CMF C23 H47 N2 O3 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157249-74-6 USPATFULL

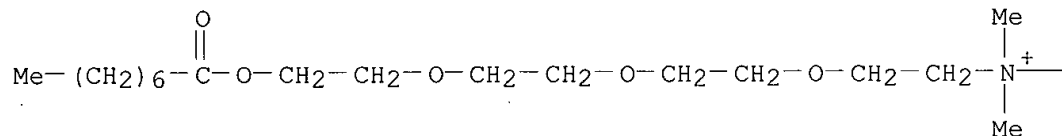
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-3,6,9,12-tetraoxaeicosan-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-73-5

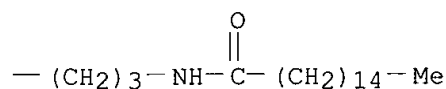
CMF C37 H75 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B



CM 2

CRN 9005-65-6
CMF Unspecified
CCI PMS, MAN

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-45-6 USPATFULL
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-46-7 USPATFULL
CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-47-8 USPATFULL
CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-48-9 USPATFULL
CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157351-49-0 USPATFULL
CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

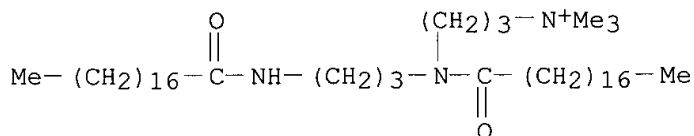
RN 157351-50-3 USPATFULL
CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

RN 157381-87-8 USPATFULL
CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

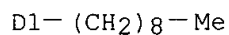
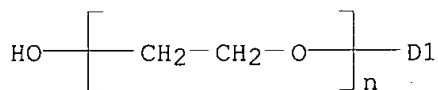
CRN 156871-41-9
CMF C45 H92 N3 O2 . Cl



Cl⁻

CM 2

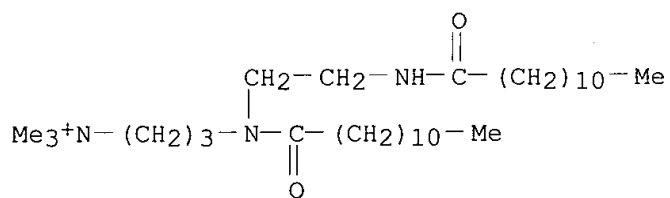
CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID



RN 157381-88-9 USPATFULL
 CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

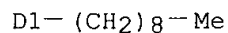
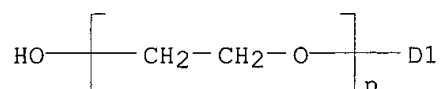
CM 1

CRN 157249-39-3
 CMF C32 H66 N3 O2 . Cl



CM 2

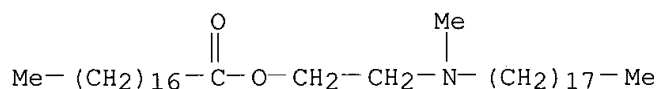
CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID



RN 157381-89-0 USPATFULL
 CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
 mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
 (9CI) (CA INDEX NAME)

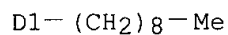
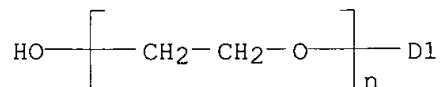
CM 1

CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



CM 2

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS
 CDES 8:ID



RN 157381-90-3 USPATFULL
 CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, acetate (salt), mixt.
 with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
 (CA INDEX NAME)

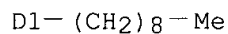
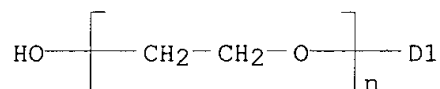
CM 1

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



CM 2

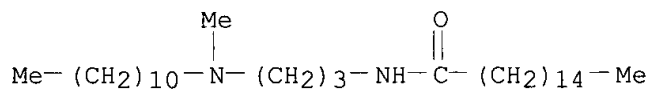
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

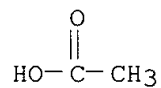
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



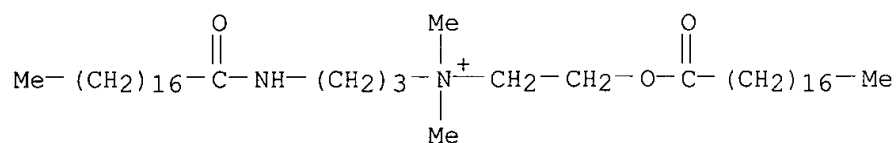
RN 157381-91-4 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . C1



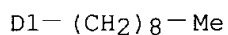
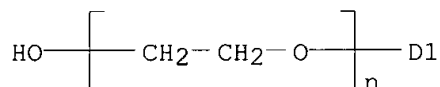
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



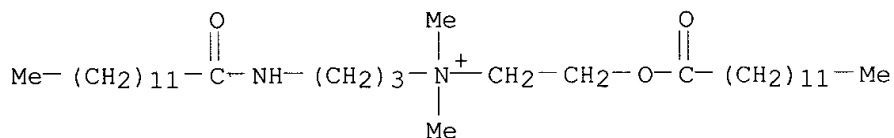
RN 157381-92-5 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



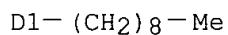
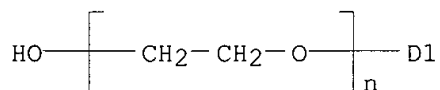
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



RN 157381-93-6 USPATFULL

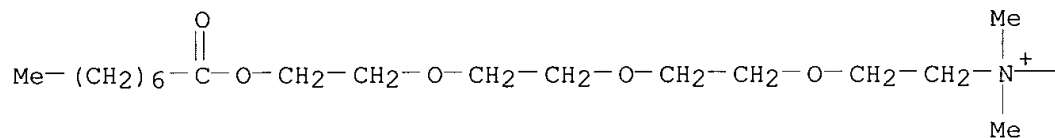
CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

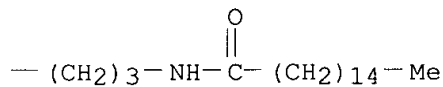
CRN 157249-73-5

CMF C37 H75 N2 O6 . Cl

PAGE 1-A

● Cl⁻

PAGE 1-B



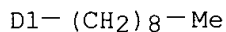
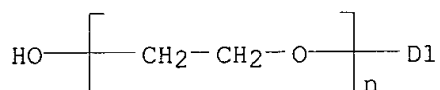
CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

CDES 8:ID



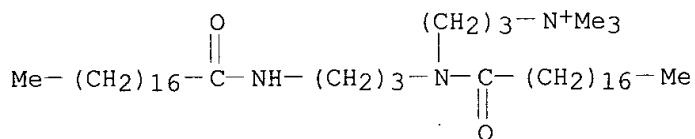
RN 157506-93-9 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

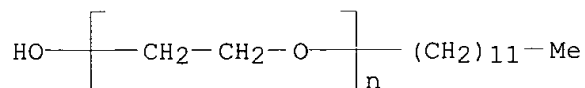


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



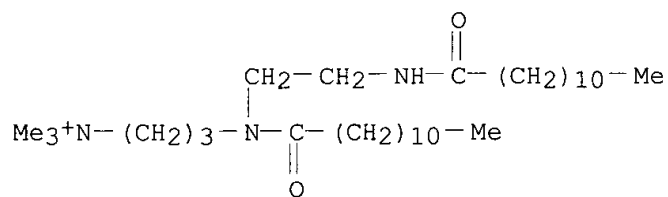
RN 157555-23-2 USPATFULL

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



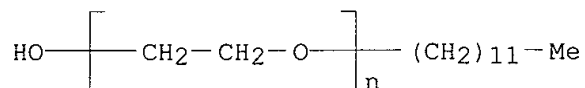
● Cl^-

CM 2

CRN 9002-92-0

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_{12} \text{ H}_{26} \text{ O}$$

CCI PMS



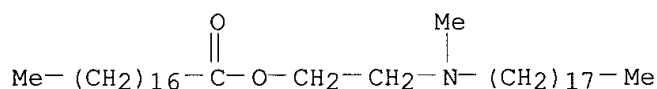
RN 157555-24-3 USPATFULL

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
(CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H



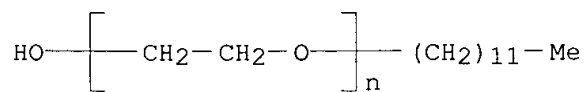
● HCl

CM 2

CRN 9002-92-0

$$\text{CMF} \quad (\text{C}_2 \text{ H}_4 \text{ O})_n \text{ C}_{12} \text{ H}_{26} \text{ O}$$

CCI PMS



RN 157555-25-4 USPATFULL

Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX

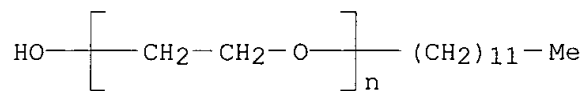
NAME)

CM 1

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



CM 2

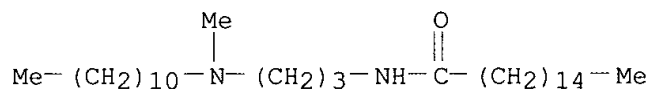
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

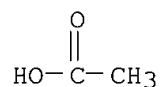
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



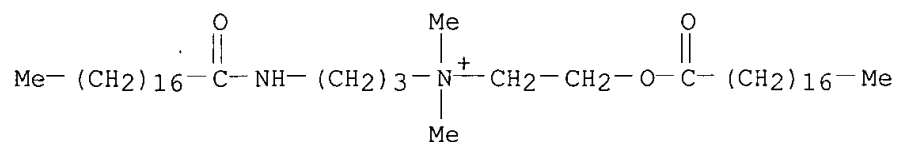
RN 157555-26-5 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . C1

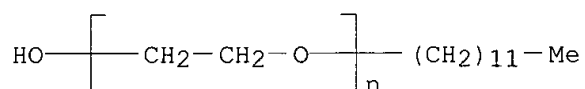


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



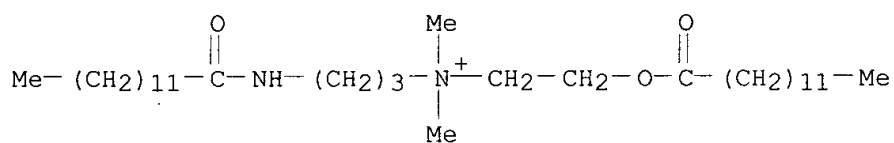
RN 157555-27-6 USPATFULL

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

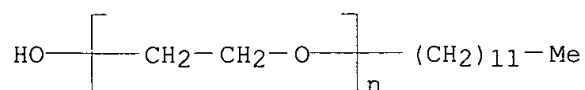


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



=> fil hcaplus

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FILE COVERS 1907 - 26 Mar 2003 VOL 138 ISS 13
 FILE LAST UPDATED: 25 Mar 2003 (20030325/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 1198 all hitstr

L198 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

AN 1994:551293 HCAPLUS

DN 121:151293

TI Quaternary ammonium pesticide enhancers.

IN Tachizawa, Osamu; Tomifuji, Takeshi; Katoh, Tohru; Nishimoto, Uichiro; Nishimoto, Yoshifumi; Sotoya, Kohshiro; Hasebe, Keiko; Hioki, Yuichi

PA Kao Corp., Japan

SO Eur. Pat. Appl., 55 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM A01N025-30

ICS A01N037-12; A01N037-20

CC 5-4 (Agrochemical Bioregulators)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 597488	A1	19940518	EP 1993-118361	19931112
	EP 597488	B1	19990929		
	R: BE, DE, FR, IT				
	JP 06219908	A2	19940809	JP 1993-285329	19931115
	US 5538937	A	19960723	US 1995-468914	19950606
	US 5728649	A	19980317	US 1995-467826	19950606
	US 5985794	A	19991116	US 1997-985365	19971204
PRAI	JP 1992-303978		19921113		
	JP 1992-303979		19921113		
	JP 1992-303980		19921113		
	US 1993-151169		19931112		
	US 1995-467826		19950606		

OS MARPAT 121:151293

AB The activity of pesticides, including herbicides, is enhanced by the quaternary ammonium compds. BCDN+C3H6N(COR1)A X- (I) [A = H, CH2CH2CN, CH2CH2CO2H, CH(CH2CO2Na)CO2Na, CnH2nO(CH2CHRO)pCOR2, etc.; B,C,D = H, Me, Et, etc.; R = H or Me; R1 = C4-30 alkyl or alkenyl; R2 = R1, CmH2mNHCOR1, etc.; m,n = 2-9; p = 0,1-30; X- = counter ion] and related compds. I (A = C3H6NHCOC17H35, B = C = D = Me, R1 = C17H35, X = Cl) (prepn. given) enhanced the activity of Osadan against Tetranychus kanzawai on kidney bean leaves.

ST quaternary ammonium compd pesticide enhancers
 IT Herbicides
 Pesticides
 Plant hormones and regulators
 RL: BIOL (Biological study)
 (enhancers of, quaternary ammonium compds. as)
 IT Quaternary ammonium compounds, biological studies
 RL: BIOL (Biological study)
 (pesticide enhancers)
 IT 13356-08-6, Osadan 131914-94-8, Nissorun V
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (enhancement of acaricidal activity of, by quaternary ammonium compds.)
 IT 330-54-1, Karmex 38641-94-0, Roundup
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (enhancement of herbicidal activity of, by quaternary ammonium compds.)
 IT 121-75-5, Malathion 122-14-5, Sumithion
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
 (enhancement of insecticidal activity of, by quaternary ammonium compds.)
 IT 2439-55-6, N-Methyloctadecylamine
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ethoxylation of)
 IT 157249-33-7 157249-34-8 157249-35-9
 157249-36-0 157249-37-1 157249-38-2
 157249-40-6 157249-41-7 157249-42-8
 157249-43-9 157249-44-0 157249-45-1
 157249-46-2 157249-47-3 157249-48-4
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 157249-72-4 157249-73-5 157249-74-6
 157351-45-6 157351-46-7 157351-47-8
 157351-48-9 157351-49-0 157351-50-3
 157381-87-8 157381-88-9 157381-89-0
 157381-90-3 157381-91-4 157381-92-5
 157381-93-6 157506-93-9 157555-23-2
 157555-24-3 157555-25-4 157555-26-5
 157555-27-6
 RL: BIOL (Biological study)
 (pesticide enhancer)
 IT 148700-67-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and quaternization of)
 IT 32582-64-2P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and reaction of, with octadecanoic acid)
 IT 150380-26-0P 151955-38-3P 156871-41-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of, as pesticide enhancer)
 IT 57-11-4, Octadecanoic acid, reactions 107-13-1, 2-Propenenitrile, reactions 109-55-7, N,N-Dimethylaminopropylamine 41999-70-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reaction of, in prepn. of quaternary ammonium pesticide enhancers)
 IT 157249-33-7 157249-34-8 157249-36-0

157249-37-1 157249-40-6 157249-41-7
 157249-43-9 157249-44-0 157249-46-2
 157249-47-3 157249-48-4 157249-50-8
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 157249-57-5 157249-58-6 157249-59-7
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 157249-74-6 157351-45-6 157351-46-7
 157351-47-8 157351-48-9 157351-49-0
 157351-50-3 157381-87-8 157381-88-9
 157381-89-0 157381-90-3 157381-91-4
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RL: BIOL (Biological study)
 (pesticide enhancer)

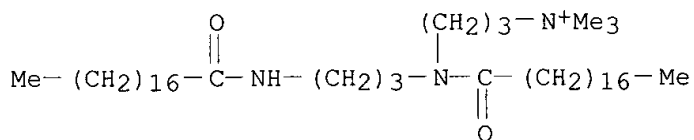
RN 157249-33-7 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

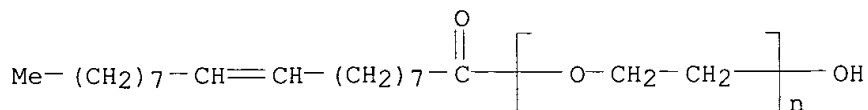


CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



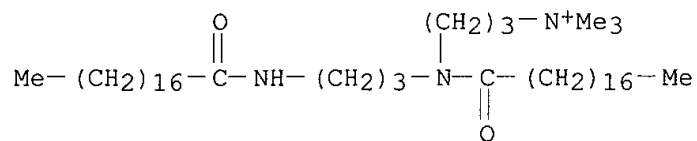
RN 157249-34-8 HCAPLUS

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-64-5
 CMF Unspecified
 CCI PMS, MAN

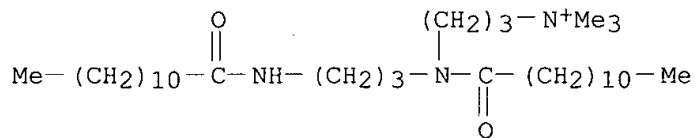
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-36-0 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

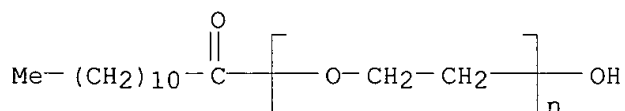
CM 1

CRN 157249-35-9
 CMF C33 H68 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9004-81-3
 CMF (C2 H4 O)_n C12 H24 O2
 CCI PMS



RN 157249-37-1 HCAPLUS

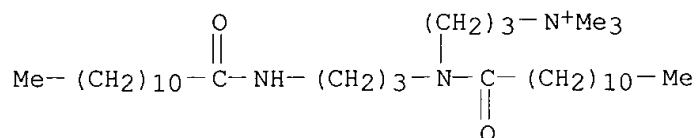
CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-

propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-35-9

CMF C33 H68 N3 O2 . Cl



CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

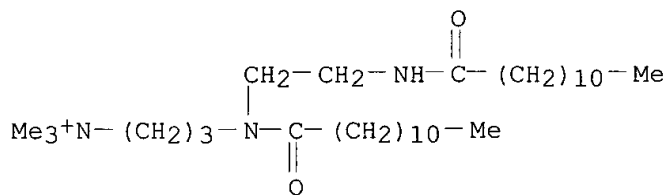
RN 157249-40-6 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

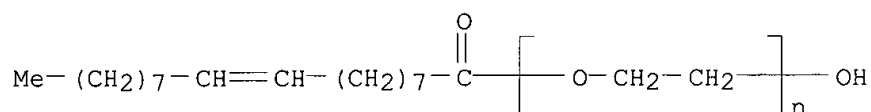


CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



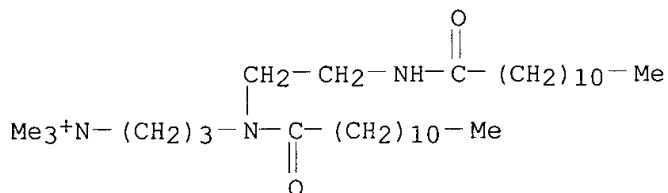
RN 157249-41-7 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

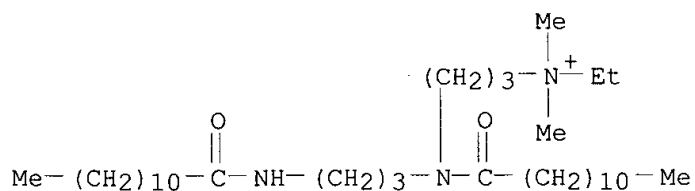
RN 157249-43-9 HCAPLUS

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl



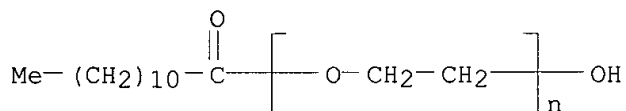
Cl⁻

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



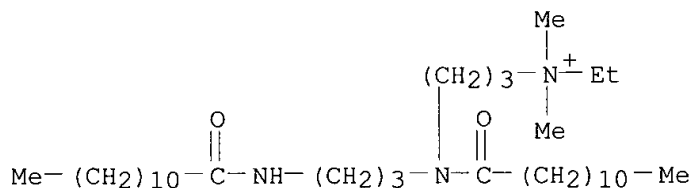
RN 157249-44-0 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-42-8

CMF C34 H70 N3 O2 . Cl

● Cl⁻

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-46-2 HCAPLUS

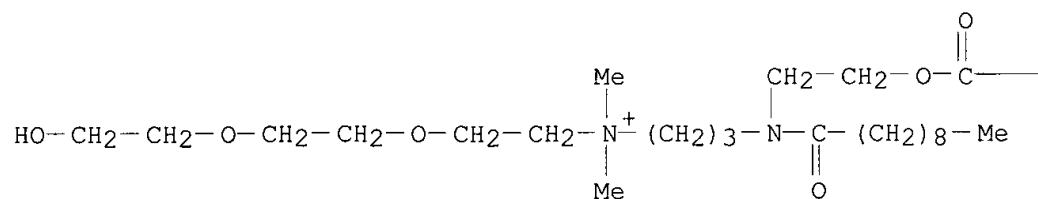
CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-N,N-dimethyl-3-[(1-oxodecyl)[2-[(1-oxodecyl)oxy]ethyl]amino]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

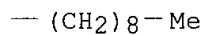
CRN 157249-45-1

CMF C33 H67 N2 O6 . Cl

PAGE 1-A



PAGE 1-B



CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

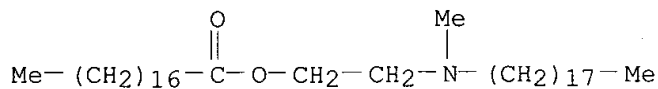
RN 157249-47-3 HCAPLUS

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H

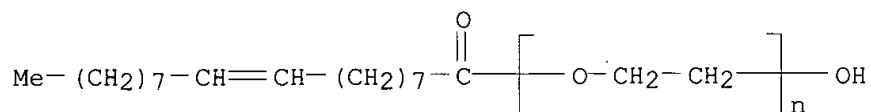


CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



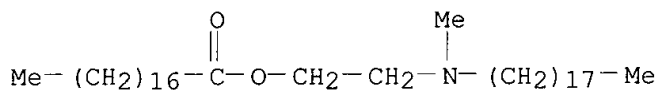
RN 157249-48-4 HCAPLUS

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with 2-(methyloctadecylamino)ethyl octadecanoate hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H



● HCl

CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

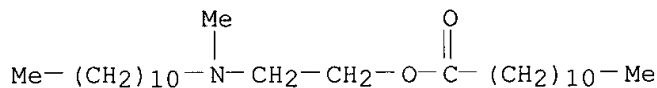
RN 157249-50-8 HCAPLUS

CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-49-5

CMF C26 H53 N O2 . Cl H



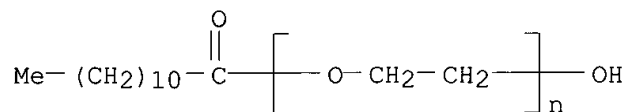
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



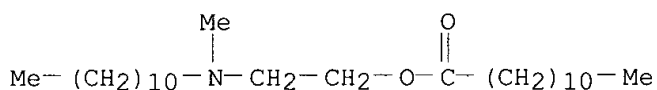
RN 157249-51-9 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with 2-(methylundecylamino)ethyl dodecanoate hydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-49-5

CMF C26 H53 N O2 . Cl H



● HCl

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-54-2 HCAPLUS

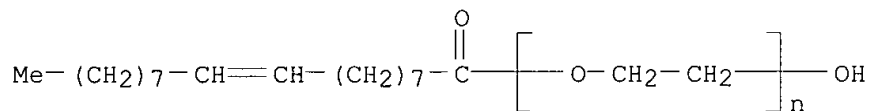
CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



CM 2

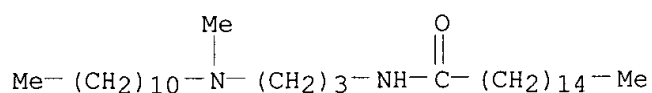
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

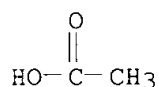
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



RN 157249-55-3 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(methylundecylamino)propyl]hexadecanamide monoacetate (9CI) (CA INDEX NAME)

CM 1

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

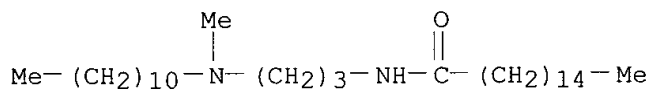
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

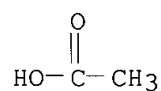
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



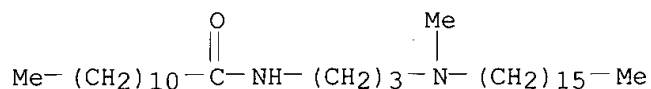
RN 157249-57-5 HCAPLUS

CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



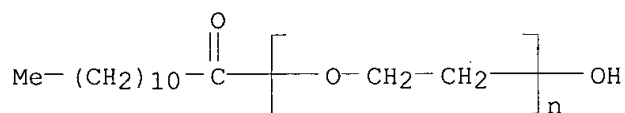
● HCl

CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n Cl2 H24 O2

CCI PMS



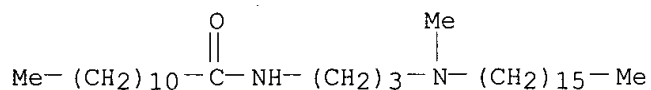
RN 157249-58-6 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N-[3-(hexadecylmethylamino)propyl]dodecanamide monohydrochloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-56-4

CMF C32 H66 N2 O . Cl H



● HCl

CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

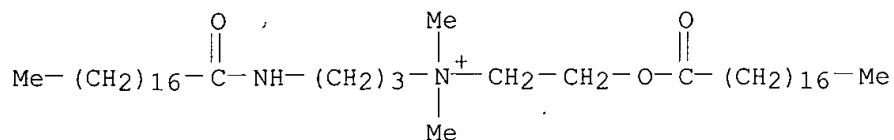
RN 157249-59-7 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl

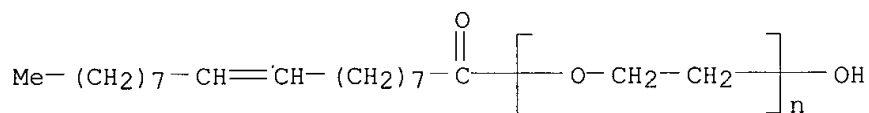


CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



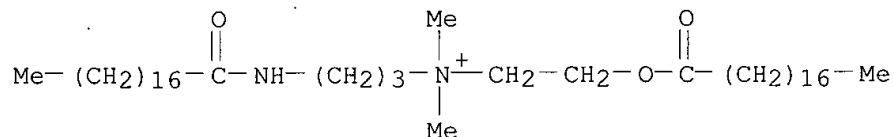
RN 157249-60-0 HCAPLUS

CN Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivs., mixt. with N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl



CM 2

CRN 9005-64-5

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

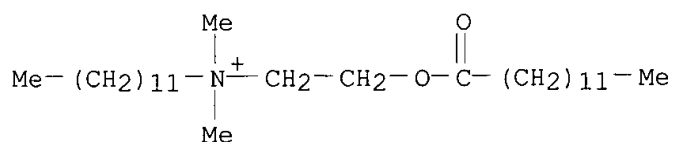
RN 157249-62-2 HCAPLUS

CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1

CMF C29 H60 N O2 . Cl

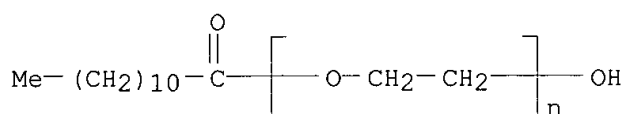


CM 2

CRN 9004-81-3

CMF (C2 H4 O)_n C12 H24 O2

CCI PMS



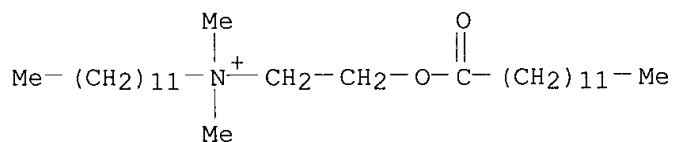
RN 157249-63-3 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-61-1

CMF C29 H60 N O2 . Cl



CM 2

CRN 9005-65-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

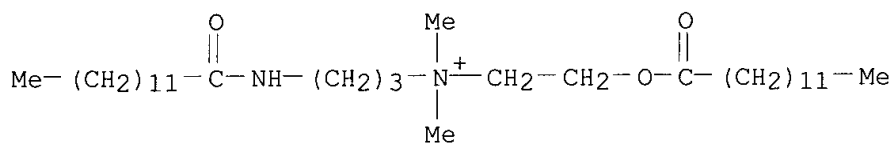
RN 157249-65-5 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with (Z)-.alpha.-(1-oxo-9-octadecenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

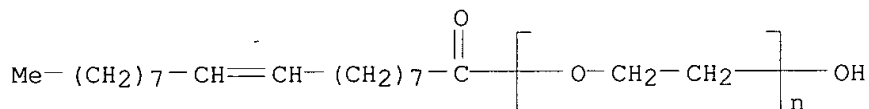


CM 2

CRN 9004-96-0

CMF (C2 H4 O)_n C18 H34 O2

CCI PMS



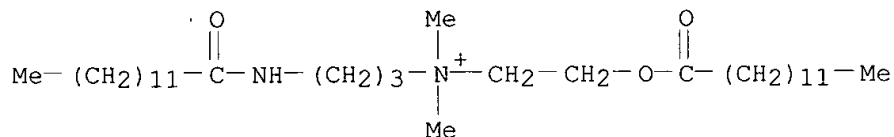
RN 157249-66-6 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-1-propanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl



CM 2

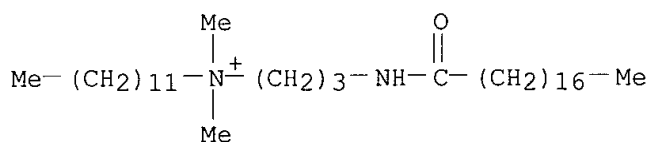
CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-68-8 HCAPLUS
 CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(1-oxododecyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

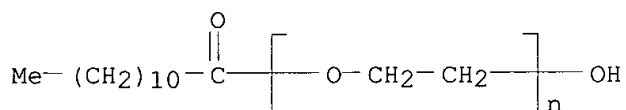
CM 1

CRN 157249-67-7
 CMF C35 H73 N2 O . Cl



CM 2

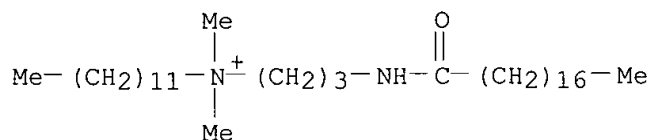
CRN 9004-81-3
 CMF (C2 H4 O)_n C12 H24 O2
 CCI PMS



RN 157249-69-9 HCAPLUS
 CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-1-dodecanaminium chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-67-7
 CMF C35 H73 N2 O . Cl



CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

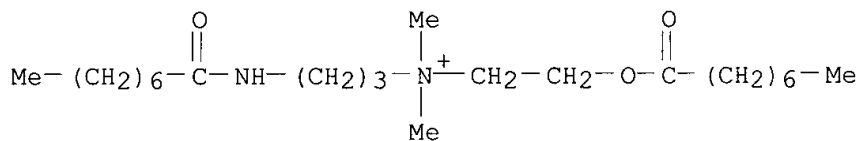
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-71-3 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-, chloride, mixt. with Emulgen 707 (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2
 CMF C23 H47 N2 O3 . Cl



CM 2

CRN 88085-98-7
 CMF Unspecified
 CCI MAN

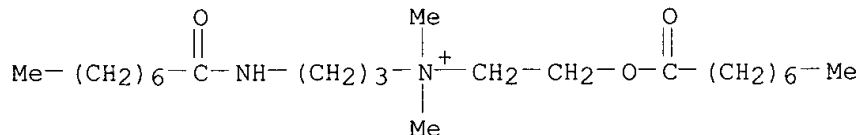
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157249-72-4 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-N-[(1-oxooctyl)amino]-N-[2-[(1-oxooctyl)oxy]ethyl]-1-propanaminium, chloride (9CI) (CA INDEX NAME)

CM 1

CRN 157249-70-2
 CMF C23 H47 N2 O3 . Cl



CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

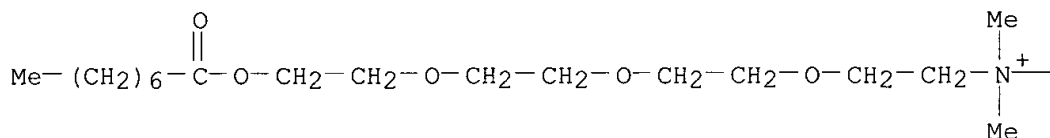
RN 157249-74-6 HCAPLUS

CN Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivs., (Z)-, mixt. with N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-3,6,9,12-tetraoxaeicosan-1-aminium chloride (9CI) (CA INDEX NAME)

CM 1

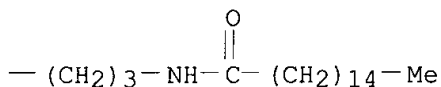
CRN 157249-73-5
 CMF C37 H75 N2 O6 . Cl

PAGE 1-A



● Cl⁻

PAGE 1-B



CM 2

CRN 9005-65-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157351-45-6 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157351-46-7 HCAPLUS

CN 1-Propanaminium, N-ethyl-N,N-dimethyl-3-[(1-oxododecyl)[3-[(1-oxododecyl)amino]propyl]amino]-, chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157351-47-8 HCAPLUS

CN Dodecanoic acid, 2-(methylundecylamino)ethyl ester, hydrochloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157351-48-9 HCAPLUS
 CN Dodecanamide, N-[3-(hexadecylmethylamino)propyl]-, monohydrochloride, .
 mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157351-49-0 HCAPLUS
 CN 1-Dodecanaminium, N,N-dimethyl-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride,
 mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

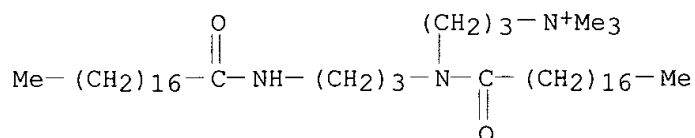
RN 157351-50-3 HCAPLUS
 CN 1-Dodecanaminium, N,N-dimethyl-N-[3-[(1-oxooctadecyl)amino]propyl]-,
 chloride, mixt. with ethoxylated C12-13 alcs. (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

RN 157381-87-8 HCAPLUS
 CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with
 .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA
 INDEX NAME)

CM 1

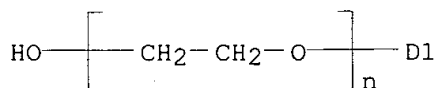
CRN 156871-41-9
 CMF C45 H92 N3 O2 . Cl



● Cl⁻

CM 2

CRN 9016-45-9
 CMF (C2 H4 O)_n C15 H24 O
 CCI IDS, PMS



D1-(CH₂)₈-Me

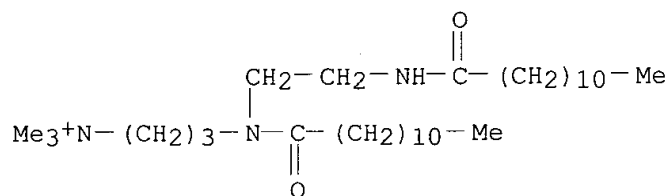
RN 157381-88-9 HCAPLUS
 CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-

oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-(nonylphenyl)-
.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

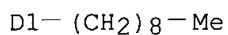
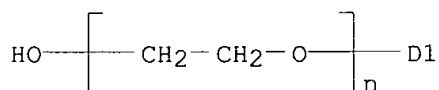


CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS



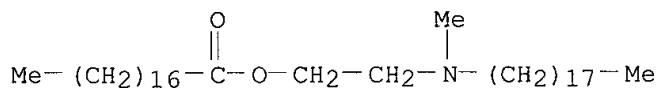
RN 157381-89-0 HCAPLUS

CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride,
mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl)
(9CI) (CA INDEX NAME)

CM 1

CRN 150380-26-0

CMF C39 H79 N O2 . Cl H

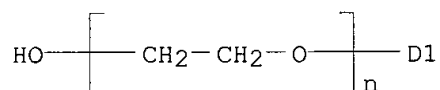


CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

D1-(CH₂)₈-Me

RN 157381-90-3 HCAPLUS

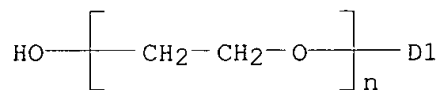
CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, acetate (salt), mixt.
with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI)
(CA INDEX NAME)

CM 1

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

D1-(CH₂)₈-Me

CM 2

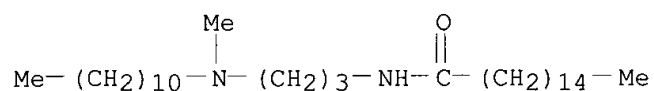
CRN 157249-53-1

CMF C31 H64 N2 O . C2 H4 O2

CM 3

CRN 157249-52-0

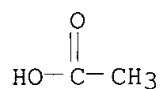
CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



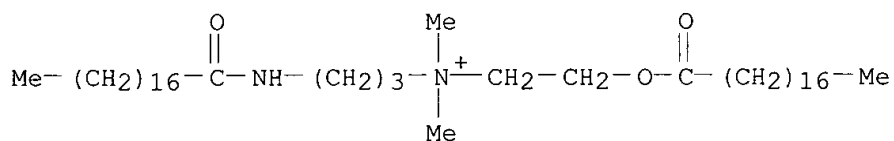
RN 157381-91-4 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl

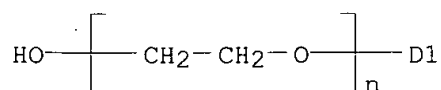
● Cl⁻

CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS

D1-(CH₂)₈-Me

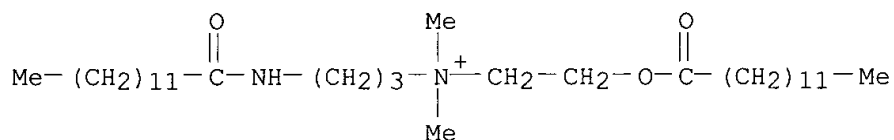
RN 157381-92-5 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

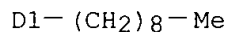
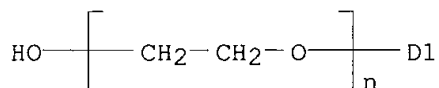


CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS



RN 157381-93-6 HCAPLUS

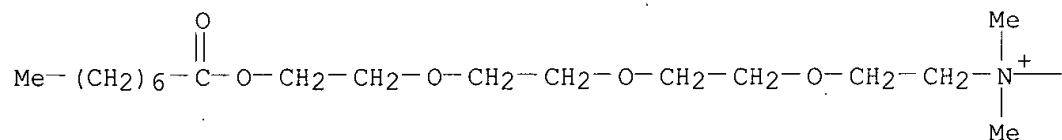
CN 3,6,9,12-Tetraoxaeicosan-1-aminium, N,N-dimethyl-13-oxo-N-[3-[(1-oxohexadecyl)amino]propyl]-, chloride, mixt. with .alpha.-(nonylphenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

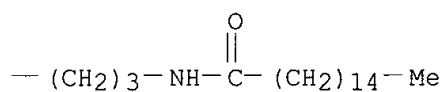
CRN 157249-73-5

CMF C37 H75 N2 O6 . Cl

PAGE 1-A



PAGE 1-B

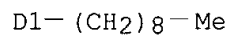
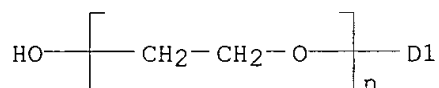


CM 2

CRN 9016-45-9

CMF (C2 H4 O)_n C15 H24 O

CCI IDS, PMS



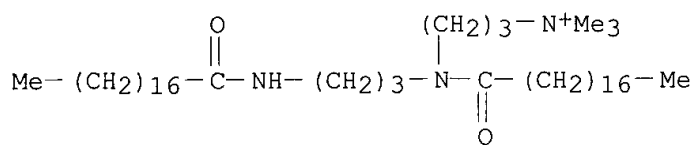
RN 157506-93-9 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxooctadecyl)[3-[(1-oxooctadecyl)amino]propyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 156871-41-9

CMF C45 H92 N3 O2 . Cl

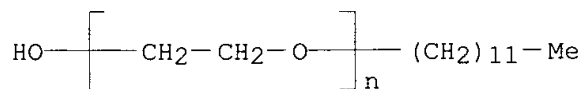


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



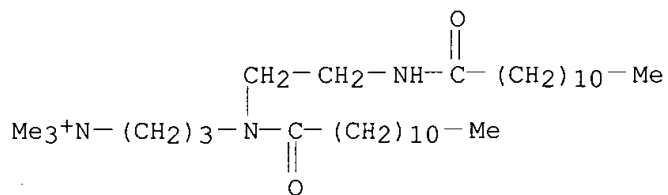
RN 157555-23-2 HCAPLUS

CN 1-Propanaminium, N,N,N-trimethyl-3-[(1-oxododecyl)[2-[(1-oxododecyl)amino]ethyl]amino]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-39-3

CMF C32 H66 N3 O2 . Cl

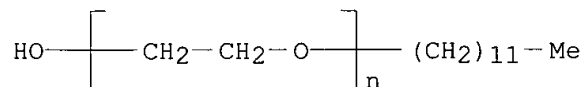


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

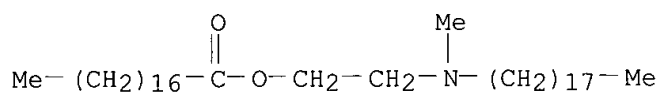
CCI PMS



RN 157555-24-3 HCAPLUS
 CN Octadecanoic acid, 2-(methyloctadecylamino)ethyl ester, hydrochloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

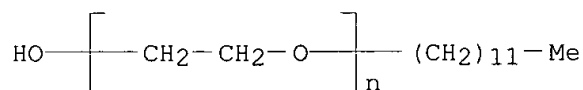
CRN 150380-26-0
 CMF C39 H79 N O2 . Cl H



● HCl

CM 2

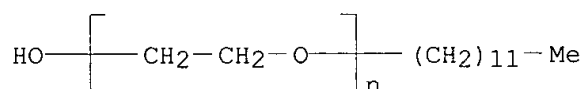
CRN 9002-92-0
 CMF (C2 H4 O)_n C12 H26 O
 CCI PMS



RN 157555-25-4 HCAPLUS
 CN Hexadecanamide, N-[3-(methylundecylamino)propyl]-, monoacetate, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 9002-92-0
 CMF (C2 H4 O)_n C12 H26 O
 CCI PMS

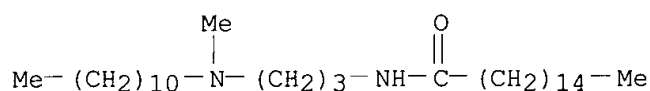


CM 2

CRN 157249-53-1
 CMF C31 H64 N2 O . C2 H4 O2

CM 3

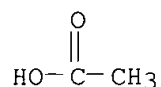
CRN 157249-52-0
 CMF C31 H64 N2 O



CM 4

CRN 64-19-7

CMF C2 H4 O2



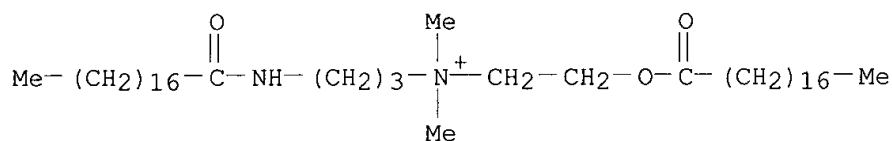
RN 157555-26-5 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxooctadecyl)amino]-N-[2-[(1-oxooctadecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 151955-38-3

CMF C43 H87 N2 O3 . Cl

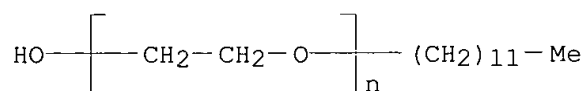


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



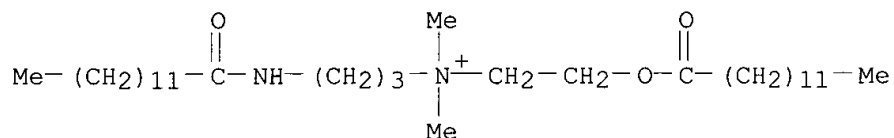
RN 157555-27-6 HCAPLUS

CN 1-Propanaminium, N,N-dimethyl-3-[(1-oxotridecyl)amino]-N-[2-[(1-oxotridecyl)oxy]ethyl]-, chloride, mixt. with .alpha.-dodecyl-.omega.-hydroxypoly(oxy-1,2-ethanediyl) (9CI) (CA INDEX NAME)

CM 1

CRN 157249-64-4

CMF C33 H67 N2 O3 . Cl

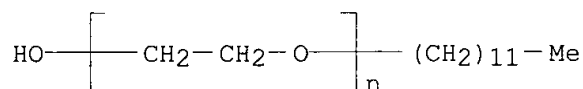


CM 2

CRN 9002-92-0

CMF (C2 H4 O)_n C12 H26 O

CCI PMS



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FILE 'REGISTRY' ENTERED AT 11:09:59 ON 26 MAR 2003

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STRUCTURE FILE UPDATES: 25 MAR 2003 HIGHEST RN 500688-79-9

DICTIONARY FILE UPDATES: 25 MAR 2003 HIGHEST RN 500688-79-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

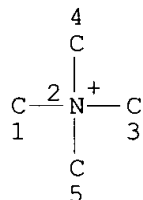
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
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in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L1 STR



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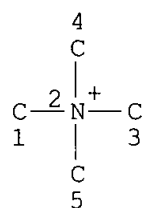
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 NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE
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 SEARCH TIME: 00.00.02

144161 ANSWERS

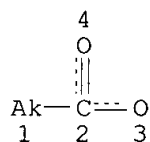
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NODE ATTRIBUTES:
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 NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE
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NODE ATTRIBUTES:
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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 47415 ITERATIONS
 SEARCH TIME: 00.00.02

8015 ANSWERS

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DEL HIS

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ACT KUMAR092A/A

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L4 (144161)SEA FILE=REGISTRY SSS FUL L3
L5 STR
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 L54 (32)SEA FILE=HCAPLUS ABB=ON PLU=ON "TOMIFUJI TAKESHI"/AU
 L55 (264)SEA FILE=HCAPLUS ABB=ON PLU=ON ("SAKAGUCHI A"/AU OR "SAKAGUCH
 L56 (161)SEA FILE=HCAPLUS ABB=ON PLU=ON ("KATOH T"/AU OR "KATOH T H"/A
 L57 (25)SEA FILE=HCAPLUS ABB=ON PLU=ON ("KATOH TOHRO"/AU OR "KATOH TO
 L58 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON L52 AND (L53 OR L54 OR L55 OR
 L59 (29835)SEA FILE=HCAPLUS ABB=ON PLU=ON ("AMMONIUM COMPOUNDS, SUBSTITU
 L60 (53018)SEA FILE=HCAPLUS ABB=ON PLU=ON QUAT? AMMONIUM
 L61 (53197)SEA FILE=HCAPLUS ABB=ON PLU=ON (L59 OR L60)
 L62 (47)SEA FILE=HCAPLUS ABB=ON PLU=ON (L49 OR L50 OR L51 OR L52 OR L
 L63 (31)SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND (LONG CHAIN OR FATTY O
 L64 (31)SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND (LONG CHAIN OR FATTY O
 L65 (20)SEA FILE=HCAPLUS ABB=ON PLU=ON "FATTY ACIDS"/CT AND L62
 L66 (20)SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND FATTY ACIDS?/CT
 L67 (20)SEA FILE=HCAPLUS ABB=ON PLU=ON (L65 OR L66)
 L68 (24)SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND FATTY ACID
 L69 (31)SEA FILE=HCAPLUS ABB=ON PLU=ON (L63 OR L64 OR L65 OR L66 OR L
 L70 (11)SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L69) AND SURFACTANT
 L71 (10)SEA FILE=HCAPLUS ABB=ON PLU=ON L62 AND (POLYOXYALKYLENE OR PO
 L72 (16)SEA FILE=HCAPLUS ABB=ON PLU=ON (L70 OR L71)
 L73 (31)SEA FILE=HCAPLUS ABB=ON PLU=ON (L62 OR L63 OR L64 OR L65 OR L
 L74 (182)SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 176550-02-0
 L75 SEL PLU=ON L73 1- RN : 387 TERMS
 L76 (387)SEA FILE=REGISTRY ABB=ON PLU=ON L75
 L77 (512)SEA FILE=REGISTRY ABB=ON PLU=ON (L74 OR L76)
 L78 (50)SEA FILE=REGISTRY ABB=ON PLU=ON L77 AND PMS/CI
 L79 (30)SEA FILE=REGISTRY ABB=ON PLU=ON L78 AND NC>=3
 L80 (12)SEA FILE=REGISTRY ABB=ON PLU=ON L79 AND NR>=1
 L81 (18)SEA FILE=REGISTRY ABB=ON PLU=ON L79 NOT L80
 L82 (20)SEA FILE=REGISTRY ABB=ON PLU=ON L78 NOT (L79 OR L80 OR L81)
 L83 (3)SEA FILE=REGISTRY ABB=ON PLU=ON L82 AND N/ELS NOT C2H5N
 L84 (462)SEA FILE=REGISTRY ABB=ON PLU=ON L77 NOT L78
 L85 (344)SEA FILE=REGISTRY ABB=ON PLU=ON L84 AND N/ELS
 L86 (148)SEA FILE=REGISTRY ABB=ON PLU=ON L85 NOT ?AMINIUM?/CNS
 L87 (196)SEA FILE=REGISTRY ABB=ON PLU=ON L85 NOT L86
 L88 (167)SEA FILE=REGISTRY ABB=ON PLU=ON L87 AND O/ELS NOT S/ELS
 L89 (166)SEA FILE=REGISTRY ABB=ON PLU=ON L88 NOT C22H45NO2/MF
 L90 STR
 L91 (144161)SEA FILE=REGISTRY SSS FUL L90
 L92 (187)SEA FILE=REGISTRY ABB=ON PLU=ON (L81 OR L83 OR L89)
 L93 (214)SEA FILE=REGISTRY ABB=ON PLU=ON L77 AND L91
 L94 (37)SEA FILE=REGISTRY ABB=ON PLU=ON L93 NOT L92
 L95 35 SEA FILE=REGISTRY ABB=ON PLU=ON L94 NOT 'UNSPECIFIED

 ACT KUMAR092AU3/A

L96 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON (JP2001-93069/AP OR JP2001-930
 L97 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON (JP2001-65091/AP OR JP2001-650
 L98 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON (JP2001-65090/AP OR JP2001-650
 L99 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON (L96 OR L97 OR L98)
 L100 (14)SEA FILE=HCAPLUS ABB=ON PLU=ON "OHTAWA YASUKI"/AU
 L101 (32)SEA FILE=HCAPLUS ABB=ON PLU=ON "TOMIFUJI TAKESHI"/AU
 L102 (264)SEA FILE=HCAPLUS ABB=ON PLU=ON ("SAKAGUCHI A"/AU OR "SAKAGUCH
 L103 (161)SEA FILE=HCAPLUS ABB=ON PLU=ON ("KATOH T"/AU OR "KATOH T H"/A
 L104 (25)SEA FILE=HCAPLUS ABB=ON PLU=ON ("KATOH TOHRO"/AU OR "KATOH TO
 L105 (1)SEA FILE=HCAPLUS ABB=ON PLU=ON L99 AND (L100 OR L101 OR L102

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L106( 29835)SEA FILE=HCAPLUS ABB=ON PLU=ON ("AMMONIUM COMPOUNDS, SUBSTITU
L107( 53018)SEA FILE=HCAPLUS ABB=ON PLU=ON QUAT? AMMONIUM
L108( 53197)SEA FILE=HCAPLUS ABB=ON PLU=ON (L106 OR L107)
L109( 47)SEA FILE=HCAPLUS ABB=ON PLU=ON (L96 OR L97 OR L98 OR L99 OR L
L110( 31)SEA FILE=HCAPLUS ABB=ON PLU=ON L109 AND (LONG CHAIN OR FATTY
L111( 31)SEA FILE=HCAPLUS ABB=ON PLU=ON L109 AND (LONG CHAIN OR FATTY
L112( 20)SEA FILE=HCAPLUS ABB=ON PLU=ON "FATTY ACIDS"/CT AND L109
L113( 20)SEA FILE=HCAPLUS ABB=ON PLU=ON L109 AND FATTY ACIDS?/CT
L114( 20)SEA FILE=HCAPLUS ABB=ON PLU=ON (L112 OR L113)
L115( 24)SEA FILE=HCAPLUS ABB=ON PLU=ON L109 AND FATTY ACID
L116( 31)SEA FILE=HCAPLUS ABB=ON PLU=ON (L110 OR L111 OR L112 OR L113
L117( 11)SEA FILE=HCAPLUS ABB=ON PLU=ON (L109 OR L116) AND SURFACTANT
L118( 10)SEA FILE=HCAPLUS ABB=ON PLU=ON L109 AND (POLYOXYALKYLENE OR P
L119( 16)SEA FILE=HCAPLUS ABB=ON PLU=ON (L117 OR L118)
L120( 31)SEA FILE=HCAPLUS ABB=ON PLU=ON (L109 OR L110 OR L111 OR L112
L121( 182)SEA FILE=REGISTRY ABB=ON PLU=ON (25322-68-3/BI OR 176550-02-0
L122( SEL PLU=ON L120 1- RN : 387 TERMS
L123( 387)SEA FILE=REGISTRY ABB=ON PLU=ON L122
L124( 512 SEA FILE=REGISTRY ABB=ON PLU=ON (L121 OR L123)

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L125 214 S L2 AND L124
L126 21 S L125 AND PMS/CI
L127 10 S L48,L95 NOT L125
L128 15370 S L2 AND PMS/CI
L129 2385 S L128 AND C2H4O
L130 463 S L128 AND C3H6O
L131 133 S L128 AND C4H8O
L132 STR
L133 50 S L132 CSS SAM SUB=L2
L134 STR L132
L135 50 S L134 CSS SAM SUB=L2
L136 8015 S L134 CSS FUL SUB=L2
      SAV L136 TEMP KUMAR092B/A
L137 123 S L136 AND L129
L138 26 S L136 AND L130
L139 14 S L136 AND L131
L140 9 S L137 AND (C43H87N2O3 OR C37H75N2O6 OR C35H73N2O OR C33H67N2O3
      SEL RN 1-5
L141 4 S L140 NOT E1-E5
L142 STR L134
L143 STR L142
L144 1 S L143 CSS SAM SUB=L136
L145 STR L143
L146 18 S L145 CSS SAM SUB=L136
L147 2540 S L136 NOT P/ELS
L148 8 S L145 CSS SAM SUB=L147
L149 108 S L145 CSS FUL SUB=L147
      SAV L149 KUMAR092C/A
      STR L145
L150 1 S L150 CSS SAM SUB=L147
L151 4 S L150 CSS FUL SUB=L147
      SAV L152 KUMAR092D/A
L153 35 S L149 NOT L137
L154 6 S L126 AND NR>=1
L155 15 S L126 NOT L154
L156 12 S L155 AND NC>=3
L157 6 S L156 AND (C43H87N2O3 OR C29H60NO2 OR C33H67N2O3 OR C35H73N2O)
L158 4 S L157 NOT (157555-26-5 OR 157555-27-6)
L159 3 S L155 NOT L156
L160 193 S L125 NOT L126,L127,L141,L158
L161 23 S L160 AND NC>=3
L162 11 S L161 AND SORBITAN
L163 5 S L162 AND (C35H73N2O OR C43H87N2O3 OR C23H47N2O3 OR C29H60NO2

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L164 170 S L160 NOT L161-L163
L165 298 S L124 NOT L125
L166 162 S L165 AND N/ELS
L167 4 S L166 AND SORBITAN
L168 24 S L166 AND (C32H66N2O OR C31H64N2O OR C39H79NO2 OR C26H53NO2 OR
L169 10 S L168 AND UNSPECIFIED
L170 14 S L168 NOT L169
L171 6 S L170 AND MXS/CI NOT C6/ES
L172 25 S L127,L141,L158,L163,L167,L169,L171
SAV L172 KUMAR092E/A

FILE 'HCAPLUS' ENTERED AT 10:51:54 ON 26 MAR 2003

L173 1 S L172
SEL RN

FILE 'REGISTRY' ENTERED AT 10:52:08 ON 26 MAR 2003

L174 75 S E6-E80
L175 40 S L2 AND L174
L176 50 S L174 NOT L172
L177 46 S L176 NOT P/ELS
L178 37 S L177 AND NC>=2
L179 22 S L178 AND MXS/CI
L180 28 S L176 NOT L179
L181 29 S L175 AND MXS/CI
L182 31 S L181,L179
L183 47 S L172,L182
L184 28 S L174 NOT L183
L185 1029 S L2 AND MXS/CI
L186 53 S L185 AND UNSPECIFIED
L187 41 S L186 NOT L183
L188 972 S L185 NOT L186,L187,L172
L189 13 S L188 AND L124
L190 47 S L183,L189
L191 165 S L188 AND L128-L131
L192 10 S L191 AND (C37H75N2O6 OR C43H87N2O3 OR C33H68N3O2 OR C34H70N3O
L193 3 S L191 AND 45/C
L194 13 S L192,L193
L195 47 S L190,L194
L196 807 S L188 NOT L189-L195
L197 0 S L196 AND L149
SAV L195 KUMAR092F/A

FILE 'HCAPLUS' ENTERED AT 11:08:26 ON 26 MAR 2003

L198 1 S L195

FILE 'USPATFULL, USPAT2' ENTERED AT 11:08:32 ON 26 MAR 2003

L199 3 S L195

FILE 'USPATFULL, USPAT2' ENTERED AT 11:09:05 ON 26 MAR 2003

FILE 'HCAPLUS' ENTERED AT 11:09:35 ON 26 MAR 2003

FILE 'REGISTRY' ENTERED AT 11:09:59 ON 26 MAR 2003

L200 6 S L6 AND MXS/CI
L201 9 S L6 AND PMS/CI